The following products which contained small amounts of encapsulated asbestos were manufactured and sold by the Benjamin Foster division of Amchem Products, Inc. and/or its predecessors in interest and may have been used in the construction industry:

I. Adhesives

Product Number	Product Name	Approximate Date of Design (month/year)
30-61	THERMAS Extruded Heat Transfer Cement	8-55
81-02	Black Spot Adhesive	11-59
81-15	INSULFAS Adhesive	8-41
81-27	Fibrous Adhesive	10-42
81-27Q	Fibrous Adhesive	12-66
81-33	Fire Resistive Adhesive	4-43
81-60	Fire Resistive Insulation Adhesive	10-59
81-93	Fibrous Adhesive	2-57
82-01	Metal Adhesive	6-59
81-03	Black Adhesive	
81-36	C.C. Adhesive	
81-52	Fire Resistive Linoleum Adhesive	
81-75	Cement, Adhesive, Fire Retardant, Type I	
82A12	Steel Floor Plate Adhesive, Part A	
82A17	Insulation Adhesive, Part A	
82B17	Insulation Adhesive, Part B	

Product Number	Product Name	Approximate Date of Design (Month/Year
82-21	Adhesive Sealer, Charcoal Gray Part A	
82-22	Adhesive Sealer, Part A	
82A26	Adhesive Sealer, White, Part A	
82-48	Mariner Adhesive	
82-69	Cold Storage Adhesive	
83-60	Adhesive	
80-02	Foster IBM Asphalt Fibre Roof Cement	
80-04	Black Cat Roof Cement (Asphalt w/Asbestos)	
80-	Foster IBM Red Plastic Roof Cement	
80-	Foster IBM Green Plastic Roof Cement	
40-	Foster IBM Green Fibre Roof Coating Cement	
II. Mastics		
31-04	Sealfas Mastic	7-59
31-16	Sealfas Mastic, Sand (Temporary) (Low Temp. Grade)	7-59
31-17	Sealfas Mastic, Mediteranean Blue (low Temp. Alt.)	7-59
31-24	Sealfas Mastic, Sand	7-59
31-99	Sealfas Mastic, White	7-59
35-00	SEALFAS G-P-M Mastic, White	5-68
35-01	SEALFAS G-P-M Mastic, Aluminum Gray	5-68
35-02	SEALFAS G-P-M Mastic, Black	5-68

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Product Number	Product Name	Approximate Date of Design (Month/Year
35-25	SEALFAS G-P-M Mastic Blue Gray	5-68
35-30	SEALFAS G-P-M Mastic, Blue	7-72
35-32	SEALFAS G-P-M Mastic, Gold	10-69
35-47	SEALFAS G-P-M Mastic, Green Gray	10-69
35-49	SEALFAS G-P-M Mastic, Sea Gray	1-69
35-53	SEALFAS G-P-M Mastic, Gray Green	8-71
35-71	SEALFAS G-P-M Mastic, Silver Gray	7-73
41-99	SEALFAS Mastic	7-59
45-00	SEALFAS G-P-M Mastic, White	2-69
45-01	SEALFAS G-P-M Mastic, Aluminum Gray	8-68
45-02	SEALFAS G-P-M Mastic, Black	8-68
45-25	SEALFAS G-P-M Mastic, Blue Gray	12-68
45-47	SEALFAS G-P-M Mastic, Green Gray	7-70
45-49	SEALFAS G-P-M Mastic, Sea Gray	1-69
45-71	SEALFAS G-P-M Mastic, Silver Gray	3-72
60-24	Cork-filled Mastic	7-59
60-25	C.I. Mastic	4-54
60-26	C.I. Mastic	11-57
60-28	C.I. Mastic	2-64

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Product Number	Product Name	Approximate Date of Design (Month/Year
60-32	Fire Resistive Mastic	6-52
60-30N	Fire Resistive Mastic	7-59
60-32	C.I. Mastic, Aluminum	10-59
60-35	Fire Resistive Mastic, Aluminum	1-49
60-42	C.I. Mastic, Aluminum	10-59
60-44	STACKFAS Mastic	11-60
60-45	STACKFAS Mastic	1-60
60-60	Fire Resistive Mastic	7-56
60-60N	Fire Resistive Mastic	7-59
60-65	Fire Resistive Mastic, Aluminum	3-53
60-80	Safetie H. I. MASTIC	1-55
60-99	Hilastic Mastic	3-58
65-04	Fire Resistive Asphalt Material	5-65
65-05	Fire Resistive C.I. MASTIC	
65-06	Fire Resistive C.I. MASTIC	
65-07	Safetie C.I. MASTIC	10-64
65-08	Safetie C.I. MASTIC	9-64
90-07	H.I. MASTIC	5-41
90-10	Low Temperature H.I. MASTIC	9-62
30-09	Climastic MASTIC, Airless Spray, White	
30-20	Climastic Mastic, Airless Spray, Gray	
31-09	Sealfas Mastic, Dupont Special Green	

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Product Number	Product Name	Approximate Date of Design (Month/Year
31-14	Sealfas Mastic, Dark Green	
31-20	Sealfas Mastic, Turquoise	
31-21	Sealfas Mastic, Cool Green	
31-22	Sealfas Mastic, Gull Gray	
31-27	Sealfas Mastic, Sea Gray	
31-32	Sealfas Mastic, Dark Yellow	
31-39	Sealfas Mastic, Bright Orange	
31-49	Sealfas Mastic, Aluminum Gray	
31-57	Sealfas Mastic, Aluminum	
31-81	Sealfas Mastic, Light Green	
31-87	Sealfas Mastic, Battleship Gray	
31-96	Sealfas Mastic, Black	
31-97	Sealfas Mastic, Green Gray	
31-98	Sealfas Mastic, Stone Gray	
33-18	Climastic Mastic, Midas Bronze (Spray)	
33-24	Climastic Mastic, Sand (Spray)	
35-03	Sealfas G-P-M Mastic, Aluminum (Trowel)	
35-04	Sealfas G-P-M Mastic, Buff	
35-06	Sealfas G-P-M Mastic, Light Green (Trowel)	
35-27	Sealfas G-P-M Mastic, Dark Gray (Trowel)	
35-31	Sealfas G-P-M Mastic, Humble Oil Green (Trowel)	

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Product Number	Product Name	Approximate Date of Design (Month/Year
35-37	Sealfas G-P-M Mastic, Battleship Gray (Trowel)	
35-39	Sealfas G-P-M Mastic, Mobay Orange	
35-40	Sealfas G-P-M Mastic, Mobay Blue	
35-41	Sealfas G-P-M Mastic, Mediterranean Blue	
35-42	Sealfas G-P-M Mastic, Special Blue	
35-43	Cork-Filled Sealfas G-P-M Mastic, Medium Blue	
35-56	Sealfas G-P-M Mastic, Light Green (Spray)	
35-61	Sealfas G-P-M Mastic, Light Blue (Spray)	
35-62	Sealfas G-P-M Mastic, Light Green (Spray)	
35-63	Sealfas G-P-M Mastic, Coral (Spray)	
35-64	Sealfas G-P-M Mastic, Yellow (Spray)	
35-72	Cork-Filled Sealfas G-P-M Mastic	
35-73	Sealfas G-P-M Mastic, Special Gray	
35-75	Sealfas G-P-M Mastic, Blue Gray (Spray)	
35-87	Sealfas G-P-M Mastic, Battleship Gray (Spray)	
35-91	Sealfas G-P-M Mastic, Niagara Brown (Trowel)	
35-92	Sealfas G-P-M Mastic, Special Brown	
36-01	Sealfas G-P-M Mastic, Aluminum Gray	
36-25	Sealfas G-P-M Mastic, Blue Gray	
41-04	Sealfas Mastic Trowel, Mediterranean Blue	

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Product Number	Product Name	Approximate Date of Design (Month/Year
41-08	Sealfas Mastic, Light Orange	
41-09	Sealfas Mastic, Trowel, Dupont Green	
41-15	Sealfas Mastic, Jade Gray	
41-18	Sealfas Mastic, Pea Green	
41-22	Sealfas Mastic, Gull Gray	
41-24	Sealfas Mastic, Sand	
41-25	Sealfas Mastic, Blue Gray	
41-27	Sealfas Mastic, Sea Gray	
41-28	Sealfas Mastic, Light Yellow, Trowel	
41-31	Sealfas Mastic, Humble Oil Green	
41-32	Sealfas Mastic, Humble Oil Gold	
41-33	Sealfas Mastic, Dark Gray	
41-39	Sealfas Mastic, Cactus Green, Trowel	
41-41	Sealfas Mastic, Light Green	
41-45	Sealfas Mastic, Dark Blue	
41-49	Sealfas Mastic, Aluminum Gray	
41-52	Sealfas Mastic, Raffia	
41-53	Sealfas Mastic, Morningstar Blue	
41-87	Sealfas Mastic, Aluminum Gray	
41-94	Sealfas Mastic, Gray Trowel	
41-96	Sealfas Mastic, Black	
41-97	Sealfas Mastic, Green Gray	

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Product Number	Product Name	Approximate Date of Design (Month/Year
42-16	Climastic Mastic, Gray Blue (Trowel)	
42-17	Climastic Mastic, Mediterranean Blue (Trowel)	
42-18	Climastic Mastic, Medium Green, Trowel	
42-19	Climastic Mastic, Midas Bronze (Trowel)	
42-49	Climastic Mastic, Aluminum Spray (Trowel)	
42-80	Climastic Mastic, Buff (Trowel)	
42-81	Climastic Mastic, Cascade Blue, Trowel	
45-06	Sealfas G-P-M Mastic, Light Green (Spray)	
45-11	Sealfas G-P-M Mastic, Light Blue (Spray)	
45-12	Sealfas G-P-M Mastic, Light Green (Spray)	
45-13	Sealfas G-P-M Mastic, Coral (Spray)	
45-14	Sealfas G-P-M Mastic, Yellow (Spray)	
45-24	Sealfas G-P-M Mastic, Sand (Spray)	
45-37	Sealfas G-P-M Mastic, Battleship Gray (Spray)	
45-40	Sealfas G-P-M Mastic, Mobay Blue (Spray)	
45-49	Sealfas G-P-M Mastic, Sea Gray (Spray)	
45-54	Sealfas G-P-M Mastic, Light Green (Spray)	
45-70	Sealfas G-P-M Mastic, Silver Gray (Spray)	

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Product Number	Product Name	Approximate Date of Design (Month/Year
60-51	Cork Filled Fire Resistive Mastic	
60-75	Fire Resistive Mastic, Aluminum Trowel	
60-75S	Fire Resistive Mastic, Aluminum, Spray	
60-75T	Fire Resistive Mastic, Gray, Trowel	
60-76S	Fire Resistive Mastic, Gray, Spray	
60-76T	Fire Resistive Mastic, Gray, Trowel	
60-77T	Fire Resistive Mastic, Black, Trowel	
65-03	Safetee Cork-Filled Fire Resistive Asphalt Mastic	
90-30	Fire Resistive Mastic, Knife	
90-7	O.C. Mastic	
III. Sealants		
30-02	Flame Resistant High Velocity Duct Sealant	9-60
30-14	Asphalt Seam Sealer	10-59
30-30	Fire Resistive Navy Sealer	5-55
30-43	Heat Resistant Sealant	12-49
30-45	FOAMSEAL Sealant	2-60
30-46	Insulation Sealant	5-63
30-47	Contraction Joint Sealant	12-69
32-14	High Velocity Duct Sealer	8-62
32-14C	Flame Resistant High Velocity Duct Sealant Cartridge Grade	8-68
95-10	Flashing Compound	9-60
95-44	Elastolar Sealant, Aluminum	10-66

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Product Number	Product Name	Approximate Date of Design (Month/Year
95-49	Elastolar Sealant, White	4-66
96-01	Extruded Sealant Tape	
96-06	Extruded Sealant Tape	
32-04	Duct Sealer, Gray	
32-15	Flame Resistant High Velocity Duct Sealant, Gray	
51-04	Insulation-Sealer Undercoating	
60-02	Flexible Joint Sealer	
90-44	Flextra Sealant (Spray)	
90-45	Flextra Sealant (Spray)	
95-08	Gray Caulking Compound	
95-15	Fitting Filler	
80-2	Foster Black Caulking Compound - Gun Grade	
95-12	Joint Filler (listed earlier then marked by post-it)	
IV. Coatings		
30-01	Protection Kote	2-53
30-17S	Fire Retardant Vapor Barrier	5-55
30-21	LAGTONE Coating, Aluminum	2-62
30-21A	Lagtone Coating, Aluminum	2-62
30-35	Tite-Fit Coating White	2-43
30-56	Tite-Fit Coating Grey	12-65
30-70	LAGTONE Coating	11-51
30-76	White Insulation Coating	5-52
30-79	White Insulation Coating	11-52

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Product Number	Product Name	Approximate Date of Design (Month/Year
31-40	Lagtone, Light Blue	7-56
31-45	Lagtone, Dark Blue	7-56
31-52	Lagtone, Orange	7-56
31-60	Lagtone, Light Green	7-56
31-65	Lagtone, Dark Green	7-56
31-70	Lagtone, Yellow	7-56
31-80	Lagtone, Buff	7-56
31-90	Lagtone, Gray	7-56
31-95	Lagtone, Black	7-56
36-00	Coating	9-71
57-80	FOAMSEAL Coating	1-72
30-44	Masonry Coating, White	
30-67	Tite-Fit Coating, Aluminum	
30-70A	Lagtone Coating, White	
31-36	Lagtone Coating, Brown	
31-47	Lagtone, Alert Orange	
31-55	Lagtone Coating, Fire Engine Red	
31-56	Lagtone Coating, Vista Green	
31-60A	Lagtone Coating, Light Green	
34-01	Lagtone Coating, Blue Green	
57-80	Foamseal Coating	1-72
57-80A	Foamseal Coating	
60-46	Stackfas - Hi Solids	
60-48	Heat Resistant Metal Coating	
40-03	Foster IBM Asphalt Fibre Roof Coating	

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Product Number	Product Name	Approximate Date of Design (Month/Year
40-04	Black Cat Roof Coating (Asphalt w/Asbestos)	
40-	Foster IBM Red Fibre Roof Coating	

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Cu La MASTIC®

60-26

SPRAY

A tough, durable, vapor barrier asphaltic coating for spray or brush application.

CAUTION: COMBUSTIBLE MIXTURE NYFD C of A 2912

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin.

• **DIRECTIONS FOR USE**—Stir well, do not thin. Apply only to clean, dry surfaces. Use Foster Insulation Primer, Black 51-03 on dusty surfaces. Apply by brush or spray (Spray Instructions available) Apply tack coat at 1/32" to 1/16". Embed Foster Mast A Fab® white membrane into wet tack coat, smoothing out to avoid wrinkles. Overlap cloth edges by at least 3 inches. Apply finish coat at 1/32" to 1/8" before tack coat has set through.

• **LIMITATIONS**—Do not use in food storage applications where odor might affect food flavors and tastes. Do not use on polystyrene foams.

• **CLEAN UP**—Clean equipment with Dow Chemical Company's "Chlorothene"® (non flammable) or mineral spirits (flammable).

CONTENTS 5 U.S. GALLONS **Refer to Product Data Sheet for further information.** **FOR INDUSTRIAL USE ONLY**

® Registered trademark

10/72 A 3M

Printed in U.S.A.

The information and data contained herein are based on experiments and facts believed to be reliable. However, no guarantee is made of their accuracy, and the products described are sold without warranty expressed or implied as to their use, application or performance. The purchaser and/or user shall make his own tests to determine the suitability of such products for his purposes and uses. No statement contained herein shall be construed as an endorsement to infringe existing patents, or as an endorsement of the products of other manufacturers. The coverage rate and performance obtained may vary depending upon roughness or porosity of surface, application techniques and service conditions. The method and conditions of application (over which we generally no control) are important factors in the performance of our products. Likewise we cannot endorse the ... make concerning the uses of our products. Therefore, we make as a condition of sale that we will gladly replace material or refund the purchase price of any Foster product ... be ...

APPLICATION GUIDE
for
FOSTER C.I. MASTIC®

CAUTION: COMBUSTIBLE MIXTURE - Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin.

MATERIAL PREPARATION

Stir well with paddle, but do not use sticks or boards which would splinter or otherwise contaminate product. Do not thin. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

(Refer to Guide Specification for Recommended Thickness.)
Apply only to clean, dry surface. Use Foster STACKTAS® Concrete Curing Agent 51-06 on dusty surfaces. Apply tack coat by desired method at specified thickness and imbed Foster MAST-A-FAB® White Membrane into wet tack coat, smoothing out to avoid wrinkles. Overlap all edges of cloth at least 3 inches (7.6 cm). Apply top or finish coat before tack coat has set through.

Trowel

Use clean tools and equipment and work in long, even strokes to insure uniform thickness. Wet tools in mineral spirits occasionally to prevent build up of dried mastic.

When aluminum asphalt coatings or mastics are applied over black asphalt mastics, avoid overworking to insure retaining aluminum color.

Spray

C.I. MASTIC 60-25 and 60-23 may be sprayed by the heated airless method at 50 to 60 gallons per hour. Please consult your Foster Representative for spray equipment recommendation, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-586-2225	Fremont, CA 415-797-1430

CLEAN-UP

Clean tools and equipment with mineral spirits (flammable); or Dow Chemical Company "Chlorothene"® (non-flammable).

C.I. MASTIC, MAST-A-FAB, and STACKTAS are trademarks of Amchem Products, Inc.

FSTM: Foster Standard Test Method.

Form No. 3155-35c
8/75-11-EF-250/297/214/00101;FN-839/1167/1163

LOSTOP

FOR INDUSTRY

CERTIFICATION OF FIRE-RESISTANCE

Foster Flame Resistant High Velocity Duct Sealant 30-02

This product is certified to have the following characteristics when tested by ASTM Designation E84 "Surface Burning Characteristics of Building Materials".

Flame Spread	20	
Fuel Contributed	20	
Smoke Developed	15	
Surface		Applied to Steel
Total Coverage	26.7	square feet per gallon

Certified to meet GSA Dry Flame Spread requirements of less than 25 when tested by ASTM Designation E162

FLAME RESISTANT HIGH VELOCITY DUCT SEALANT 30-02

A tough, flexible joint sealant for high velocity air-conditioning duct systems.

CAUTION: VAPOR HARMFUL – Use only with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin.

• DIRECTIONS FOR USE: Do not thin. Apply to clean dry surfaces. Keep container closed when not in use to prevent solvent evaporation. Apply by brush or pressure extrusion equipment. On spiral duct apply thick coat to male end of coupling prior to slipping into straight duct. Brush in fast over joint exterior and beads of all nuts & screws after they are in place and duct is mechanically fastened. Coat both flange faces of rectangular ducts before joining with the flange gasket. Join sections while sealant is still wet (1 to 3 minutes). If shrinking occurs on the surface after application brush by slightly twisting metal duct or apply fresh application over the first coat. Coverage: 15 sq. ft. per gallon.

• LIMITATIONS: Do not apply below 30F or above 100F. Do not use with vinyl plastic tapes. Do not pressure test until 48 hours after application.

• CLEAN UP: Clean brushes and equipment with Dow Chemical Co.'s "Chlorothene" (non-flammable) or Hexcel Spirits (flammable).

CONTENTS 5 U.S. GALLONS — Refer to Product Data Sheet for further information. — FOR INDUSTRIAL USE ONLY

LOSTOP

FOR INDUSTRY

CERTIFICATION OF FIRE-RESISTANCE

Foster Duct Sealants High Velocity Duct Sealer 30-02

This product is certified to have the following characteristics when tested by ASTM Designation E84 Surface Burning Characteristics of Building Materials:

Flame Spread	20
Fuel Contributed	20
Smoke Developed	45
Surface	Approved to Class
Rated Coverage	25 [illegible] feet per gallon for [illegible]

[illegible] 30-02 C

HIGH VELOCITY DUCT SEALANT

NON-FLAMMABLE 30-02

A tough, flexible joint sealant for high velocity air-conditioning duct systems.

• DIRECTIONS FOR USE--Remove metal plug at nozzle and before using. Do not disturb metal wire[illegible] inside the cartridge as it acts as a dust sealer or piston. Do not thin. Apply to clean dry surfaces. On spiral duct, apply liberal coat to male end of coupling prior to slipping into straight duct. Apply sealant over joint exterior and heads of all metal screws after they are in place and joint is mechanically fastened (coat both flange faces of sealanguise duct before joining with the flange gasket. Join sections while sealant is still wet (2 to 3 minutes). If skinning occurs on the surface after application, break by slightly twisting metal duct or apply liberal coat over the first coat. Coverage 25 sq ft per gallon.

• LIMITATIONS – Do not apply below 30f or above 100f. Do not use with vinyl plastic tapes. Do not pressure test until 48 hours after application.

• CLEAN UP – Clean equipment with Dow Chemical Company's Chlorothene™ (non flammable) or mineral spirits (flammable).

WARNING: HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES BURNS IN EYES. IRRITATION OR ON CONTACT WITH SKIN. CONTAINS SOLVENTS WHICH MAY CAUSE [illegible]

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Use with adequate [illegible] ventilation. Wash thoroughly after handling.

FIRST AID: Call a physician. If swallowed, dilute by giving several glasses of water or milk and induce vomiting by giving soapy water, salty water (1 tbs per glass) or by sticking fingers down throat. Repeat several times. INHALATION: Never induce vomiting or give anything by mouth to person who is having convulsions or is unconscious.

If exposed remove person to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. If breathing is difficult give oxygen.

In case of contact remove contaminated clothing and shoes and immediately flush eyes or skin with plenty of water for at least 15 minutes.

Refer to Product Data Sheet for further information

CONTENTS: 12 CARTRIDGES -- 20 FL. OZ. EACH

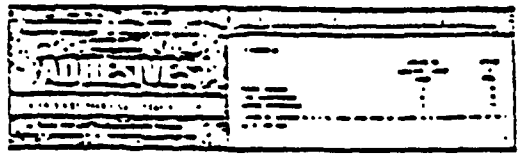
FOR INDUSTRIAL USE ONLY

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-02

FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT



PROPERTIES

COLOR (FSTM 4)
Dark Mustard

APPLICATION CONSISTENCY (ASTM D2507)
Brush or caulking gun

GALLON WEIGHT (ASTM D1475)
10.5 pounds

COVERAGE (FSTM 72)
Brush: 35 sq. ft. per gallon
(0.06 in. wet film thickness)
Caulking Gun:
- 55 lineal feet per 28 fluid oz. tube (1/4 in. bead)
- 330 lineal feet per 28 fluid oz. tube (1/8 in. bead)
- 30 lineal feet per 11 fluid oz. tube (1/4 in. bead)
- 180 lineal feet per 11 fluid oz. tube (1/8 in. bead)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 20F to 200F

SAFETY
- Wet Flammability (ASTM D93)
  Non-flammable
- Dry Flame Spread (ASTM E84)
  0 on 1/4 in. Asbestos Cement Board
  Certified to meet GSA Requirements
- Threshold Limit Value for solvent vapor (FSTM 73) T.L.V. 500 ppm

FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT 30-02 is designed for use in high velocity air-conditioning systems. It performs as a tough and flexible joint sealant in the metal to metal joints of both spiral and rectangular air ducts. It may be used with or without reinforcing tapes. All joints must be mechanically fastened with sheet metal screws.

Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

FLAME RESISTANT HIGH VELOCITY DUCT SEALANT contains only non-flammable solvent to eliminate fire and explosion hazards during application.

FLAME RESISTANT HIGH VELOCITY DUCT SEALANT is also used to seal gaskets where its temperature limits and high flexibility are required. It can be used to seal duct fabrics and flexible tubing run-outs to high velocity ducts and to mixing boxes or air diffuser heads but crawbacks, clamps or sheet metal screws must be used.

Meets NFPA 90A requirements.

LIMITATIONS
Do not pressure-test until 48 hours after application. Do not use with vinyl plastic tapes.

Do not use if air or surface temperature at time of application is below 30F or above 100F.

Some vinyl films and plastic foams may be attacked by the solvent in this product. The user should establish by his own test that this will not occur.

Do not use in food storage applications where solvent odor might affect food flavors or taste.

This product is inspected and classified by Underwriters' Laboratories, Inc.

®Trademark of Amchem Products, Inc.
ASTM - Foster Standard Test Method
Form No. 2188-43a
11-78-5M

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

The information and data contained herein are based on laboratory tests and field service to be true and accurate. However, no guarantee is made of their accuracy, and the products described are sold without warranty, expressed or implied, except that they conform to their respective descriptions. The purchaser should make his own tests to determine the suitability of such products for his purposes and uses. No statement contained herein shall be construed as a recommendation to infringe existing patents or as an endorsement of the products of other manufacturers. The user is advised that certain solvents may vary considerably their solvency or tendency to leave residues depending upon the nature of surface, age of surface, methods and conditions of application and other variables. Suggestions of uses of the products are not to be construed as warranties or representations upon which purchasers may rely. Purchasers should make their own tests to determine the suitability of the products. Statements concerning the recommendations which we have described in the use of our products are made as a condition of sale that we shall not be liable for any loss or damage resulting from the use of the products whether or not in accordance with such recommendations, unless proved by our negligence. In no event shall we be liable for any consequential damages.

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Application Guide for

FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT 30-02

CAUTION: Warning: vapor harmful. Use only with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin.

MATERIAL PREPARATION

Do not thin. Apply to clean, dry surfaces only. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

(Refer to Guide Specification for recommended coverage)

Apply by brush or pressure extrusion equipment.

On spiral duct apply a thick coat of 30-02 to the male end of the coupling prior to slipping the straight run of spiral duct over it. Brush excess 30-02 over the exterior of the joint and over the heads of all metal screws after they are in place and the joint is mechanically fastened. On the flanges of rectangular ducts both flange faces should receive a coat of 30-02 before joining with the flange gasket.

Join and bond while the sealant is still wet (2-3 min). If the material should skin on the surface after application, this may be broken by a slight twisting action of the metal duct or a fresh application over the first coat sealant.

Consult Foster Technical Sales Service for detailed pressure extrusion instructions.

CLEAN-UP

Use a solvent such as Dow Chemical Company "Chlorothene"® (non-flammable); or mineral spirits (flammable) for cleaning tools and equipment.

DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

Guide BJLZ March 6, 1972 R4997A

Adhesives.
Foster, Benjamin, Div. of Amchem Products, Inc., Ambler, Pa. 19002

	Fire Hazard Classification	
	Applied to Asbestos-Cement Board	Applied to Steel
Flame Spread	15	20
Fuel contributed	10	20
Smoke developed	0	15

Tested as applied in a 2 in. wide strip 0 in. on center at a coverage of 25.7 sq. ft. per gal.
Flash point of finished adhesives (closed cup) no flash to boiling.

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FOSTER

SEALANTS ADHESIVES FOR INDUSTRY

CERTIFICATION OF FIRE-RESISTANCE

Foster Tite-Fit Coating, White 30-35

This product is certified to have the following characteristics when tested by ASTM Designation E84 70 "Surface Burning Characteristics of Building Materials".

Flame Spread	20
Fuel Contributed	10
Smoke Developed	10
Surface	¼ inch Asbestos Cement Board
Total Coverage	50 square feet per gallon

Certified to meet GSA Dry Flame Spread requirements of less than 25 when tested by ASTM Designation E162-67

We hereby certify that after the solvents have evaporated this product is non combustible in accordance with NFPA National Fire Code, Section 220(b).

TITE-FIT COATING 30-35 WHITE

A flexible, fire-resistive, vapor barrier coating for rigid thermal insulation.

Meets Military Specification MIL-C-19565 B, Type II and Federal Specification HH-I-557, Sec. 3.5

CAUTION: COMBUSTIBLE MIXTURE

NFID C of A 2912

Keep away from heat and open flame. Use with adequate ventilation. Keep container closed when not using. Avoid prolonged breathing of vapor and prolonged or repeated contact with skin.

- DIRECTIONS FOR USE—Stir well, do not thin. Apply only to clean, dry surfaces. Keep container closed when not in use. Apply by brush, glove or spray (spray instructions available) at 1/16 in. wet film thickness. Use membrane when specified. With glove, dip glove occasionally in clean up solvent to improve slip and give a smooth appearance to work. Coverage 4 gallons per 100 sq. ft. (minimum).
- LIMITATIONS—Not recommended for outdoor exposure. Some plastic foams may be attacked by the solvent in this product. Test first to be sure. Do not apply below 40f or above 100f.
- CLEAN UP—Clean equipment with Dow Chemical Company's "Chlorothene"® (non flammable) or mineral spirits (flammable).

CONTENTS 5 U.S. GALLONS

Refer to Product Data Sheet for further information.

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Printed in U.S.A. Form No. 6002 12 74 3m

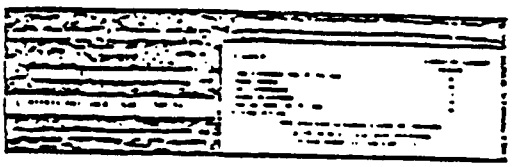
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by trained and qualified craftsmen

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-35

FOSTER TITE-FIT COATING



Foster TITE-FIT Coating is a flexible, fire resistive vapor barrier coating for rigid ther insulation. It was designed f coating fibrous glass insulati fittings. It meets the requir ments of Military Specificatio MIL-C-19565B, Type II.

PROPERTIES

COLOR
White

APPLICATION
Brush, Glove, or Spray

WEIGHT PER U.S. GALLON(ASTM D1475-60)
11.0 pounds(1.3 kg/liter)

AVERAGE NON-VOLATILE(ASTM C461-64)
45% by volume

THICKNESS & COVERAGE (FSTM 71)
(Subject to type of surface and nature of material being coated)
Wet Coverage: 1/16 inch(1.6mm), 4 gallons per 100 sq.ft. minimum (1.6 liter/m²), on smooth, non-porous surface. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

DRYING TIME (ASTM D1640-69)
Set to touch: 4 hours
Dry through: 24 hours

SERVICE TEMPERATURE LIMITS(FSTM 70)
(Temperature at coated surface)
20°F to 150°F(minus 7°C to 66°C)

WATER VAPOR TRANSMISSION(ASTM E398-70)
0.05 perm at 0.055 inch dry film thickness (0.03 metric perm at 1.4mm)

HAZARD
Wet Flammability(ASTM D93-73)
Flash Point 110°F(43°C)
Dry Flame Spread(ASTM E84-70)
20 on 1/4 inch Asbestos Cement Board
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)
Threshold Limit Value for solvent vapor (FSTM 73) T.L.V. 500 ppm

LIMITATIONS

Not recommended for outdoor exposure.

Some plastic foams may be attacked by the solvent in thi product. The user should esta lish by his own test that this will not occur.

Do not use in food storage applications where solvent odo might affect food flavors or taste.

TITE-FIT Coating 30-35 is classified by Underwriters' Laboratories, Inc.

FOR INDUSTRIAL USE ONLY BY TRAINED AND QUALIFIED CRAFTSME

FSTM: Foster Standard Test Met
Form No. 3155-3c
8/73-14-BF-458

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER PA 19002

The information and data contained herein are based on experiments and tests believed to be reliable and are offered in good faith as a guide to the use of our products. Since the conditions of use are beyond our control, we make no warranty, express or implied, except that the product will meet our specifications at the time of shipment. Buyer assumes all risk and liability for results obtained or damages incurred from the use of our product. We make no recommendation and no statement is intended or should be construed as a recommendation to infringe any patent. We make no warranty against infringement resulting from the use of our product alone or in combination with other materials or in any process. Any statement or recommendation not contained herein shall not be binding upon us unless set forth in a writing signed by an officer of this company.

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APPLICATION GUIDE FOR

FOSTER TITE-FIT COATING

DANGER! MAY BE FATAL IF SWALLOWED. COMBUSTIBLE MIXTURE. Wash thoroughly after handling. Keep away from heat and open flame. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. In case of fire use water spray, foam, dry chemical or CO_2.

POISON

IF SWALLOWED CALL A PHYSICIAN IMMEDIATELY.

ANTIDOTE - FIRST AID TREATMENT:
If swallowed, do not induce vomiting. Call a physician immediately. Give four ounces liquid petrolatum followed by gastric lavage with tap water. Give demulcents. If inhaled, promptly remove from exposure and give oxygen by alternating pressure or artificial respiration if necessary.

MATERIAL PREPARATION
Stir well. Do not thin. Apply only to a clean dry surface. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION
(Refer to Joint Specification for recommended coverage.)

Apply TITE-FIT Coating by brush, glove or spray at 1/16 inch wet film thickness with or without membrane as specified. When fitting halves are assembled in the field, use mechanical attachment.

Brush or Glove
Use a good brush, making strokes as long as possible over the surface of a fitting. In glove application wet the glove with clean-up solvent (xylol) occasionally to improve slip and give a smooth appearance to the work.

Spray
TITE-FIT Coating may be airless spray applied at approximately 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendations, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-986-2225	Fremont, CA 415-797-1430

CLEAN-UP
Use a solvent such as Dow Chemical Company "Chlorothene" (non-flammable) or mineral spirits (flammable) for cleaning brushes and equipment.

DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

Guide BNEV. October 15, 1976 R15911.
Coatings, General Purpose. (Continued from R card.)

Amchem Products, Inc., Foster Div.

Vapor-barrier coverage.

Fire Hazard Classification of Applied Coatings
Min. Asbestos-Cement Board

Total coverage (sq ft per gal)	60
Flame spread	25
Fuel contributed	10
Smoke developed	10
Coats per Coat (sq ft per gal)	60
Number of Coats	1

Fire Hazard Classification of Solvents
[illegible]
Flash point (Tagliabue open cup) [illegible] F.

This card replaces R15911 dated April 27, 1976. Filed Foster, Benjamin, Div. of Amchem Products, Inc.
(Continued on 3 card.)

This card is issued by Underwriters Laboratories Inc.

10&30

SEALERS
ADHESIVES
FOR THERMAL INSULATION

HEAT RESISTANT SEALER 30-43

A sealer with outstanding resistance to heat deterioration.

CAUTION: COMBUSTIBLE MIXTURE—Keep away from heat and open flame. Avoid prolonged or repeated contact with skin.

- **DIRECTIONS FOR USE**—Stir well, do not thin. Apply only to clean, dry surfaces. Apply by trowel or caulking gun. When sealing insulation joints, apply at 1/16 to 1/8 inch wet thickness and press mating surfaces firmly together to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to a feather edge but maintain a minimum of 1/8 inch thickness in entire area of use. Coverage—10 to 15 gallons per 100 sq. ft. (1/2 to 2/3 sq. ft. per lb.).

- **LIMITATION**—For optimum performance temperature during application should not be below 40F or above 100F. Permit to cure for 24 hours before placing in heated service.

CONTENTS 60 POUNDS NET **Refer to Product Data Sheet for further information.** **FOR INDUSTRIAL USE ONLY**

The facts stated and the suggestions contained herein are based on experiments and information believed to be reliable. No guarantee is made of these accuracy, however, and the products described are sold without warranty, expressed or implied, as to their use or application by the purchaser. The purchaser should make his own tests to determine the suitability of such products for his particular purposes and uses. The methods and conditions and application based which we can exercise no control) are important factors in the performance of our products. We make detailed recommendations for application and use of all Foster products but we cannot endorse our recommendations to the users therefore, it is necessary that we make as a condition of sale of our products that we will gladly replace or refund the purchase price of any Foster product found by our laboratories to be defective in any way, but that we assume no responsibility beyond the purchase price of our material. Likewise, no statement contained herein shall be construed as an endorsement to infringe existing patents, or as an endorsement of the products of specific manufacturers. No representative of our company has authority to change or extend this condition of sale.

BENJAMIN FOSTER COMPANY

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA

30-43

HEAT RESISTANT SEALANT

PROPERTIES

COLOR (FSTM 4)
Light Gray

APPLICATION CONSISTENCY (ASTM D2307)
Trowel

GALLON WEIGHT (ASTM D1475)
14.3 pounds

AVERAGE NON-VOLATILE (ASTM C461)
80% by volume

COVERAGE (FSTM 71)
10 to 15 gallons per 100 sq.ft.
(1/2 to 2/3 sq.ft. per lb.)
(0.16 in. to 0.24 in. wet film thickness)

DRYING TIME (ASTM C461)
Touch: 4 to 6 hours
Through: 18 to 24 hours
Full cure upon heating.

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 20F to 400F

SAFETY
WET FLAMMABILITY (ASTM D92)
Flash Point 140F
DRY COMBUSTIBILITY (FSTM 44)
Combustible
Threshold Limit Value for solvent vapor (FSTM 73) TLV 200 ppm

FOSTER HEAT RESISTANT SEALANT 30-43 has outstanding resistan to heat deterioration. Suitab at temperatures up to 400F for prolonged periods, maintaining a firm, tight seal against wat

HEAT RESISTANT SEALANT is used as a gasket adhesive, and as a flashing compound and weather seal with thermal insulation i high temperature applications.

LIMITATIONS

For optimum performance, temperature during application should not be below 40F or above 100F.

Permit to cure for 24 hours before placing in heated service.

Some plastic foams and some vinyl films may be attacked by the solvent in this produc User should establish by his own test that this will not occur.

FSTM: Foster Standard Test Method

4/72-5-2M
Form No. 3155-34

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

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APPLICATION GUIDE for

FOSTER HEAT RESISTANT SEALANT 30-43

CAUTION: Combustible mixture. Keep away from heat and open flames. Avoid prolonged or repeated contact with skin.

MATERIAL PREPARATION

Do not thin. Apply to clean dry surfaces only. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

(Refer to Guide Specification for recommended coverage)

Apply by trowel, putty knife, or hand. When sealing insulation joints, apply HEAT RESISTANT SEALANT at 1/16 to 1/8 inch wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge but maintain a minimum of 1/8 in. wet film thickness in entire area of use. Use membrane as specified.

CLEAN-UP

Use solvent such as Dow Chemical Company "Chlorothene"® (non-flammable); or mineral spirits (flammable) for cleaning tools and equipment

®Registered trademark

Foster®

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

FOAMSEAL SEALANT 30-45

A gray, vapor barrier sealant designed for use with cellular glass insulation.
Meets Military Specification MIL-A-19564.
U.S.D.A. Chemically Acceptable

CAUTION: COMBUSTIBLE MIXTURE

Keep away from heat and open flame. Avoid prolonged or repeated contact with skin.

• **DIRECTIONS FOR USE**—Do not thin. Apply to clean, dry surfaces only. Apply by trowel or caulking gun. When sealing insulation joints, apply beadseal at 1/16 to 1/8 inch wet thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, apply at a rate of 12 to 25 sq ft per gallon and do not trowel out to a feather edge, but maintain a minimum of 1/8 inch wet thickness in the entire area of use.

• **LIMITATIONS**—Permit to cure one week before placing in heated service. Do not apply below 50f. Do not use in food storage applications where odor might affect food flavors and tastes

• **CLEAN UP**—Use solvent such as Dow Chemical Company's "Chlorothene" (non flammable) or Mineral Spirits (flammable) for cleaning tools and equipment

CONTENTS 5 U.S. GALLONS Refer to Product Data Sheet for further information. FOR INDUSTRIAL USE ONLY

BATCH NO.

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-45

FOSTER FOAMSEAL® SEALANT

PROPERTIES

COLOR (FSTM 4)
Gray

APPLICATION CONSISTENCY (ASTM D2507)
Trowel or caulking gun

GALLON WEIGHT (ASTM D1475)
11.5 pounds

AVERAGE NON-VOLATILE (ASTM C461)
94% by volume

COVERAGE (FSTM 72)
Trowel: 12 to 25 sq. ft. per gallon
(1/8 in. to 1/16 in. wet film thickness)
Caulking Gun:
85 lineal feet per 28 fluid oz. tube (1/4 in. bead)
330 lineal feet per 28 fluid oz. tube (1/8 in. bead)
30 lineal feet per 10 fluid oz. tube (1/4 in. bead)
130 lineal feet per 10 fluid oz. tube (1/8 in. bead)

DRYING TIME (ASTM C461)
Touch: 8 hours
Through: 7 to 14 days
(Depending on thickness of application and temperature).

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 100F to 300F

WATER VAPOR TRANSMISSION (ASTM E96)
0.03 perm-inch
The water vapor transmission through 1 inch of impermeable insulation in 12 in. x 18 in. blocks with 1/8 in. joints of FOAMSEAL® 30-45 is too small to measure.

SAFETY

Wet Flammability (ASTM D1310)
Flash Point over 300F

Dry Combustibility (FSTM 44)
Combustible. Flame spread and fuel contribution negligible when used as sealant in ½ in. wide joints on incombustible insulation.

FSTM = Foster Standard Test Method
® Registered Trademark
[illegible]
Destroy previous issues
Form No. 3155-23

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

FOAMSEAL® 30-45 is a gray vapor bar sealant designed for use with cellular glass sulation. It remains soft and tough in service will not shrink or crack during repeated cycle high and low temperatures.

FOAMSEAL® thoroughly seals the joints of cel glass insulation against the entrance of mois When used as a bedding compound and joint ant, FOAMSEAL® provides additional protec to the blocks of insulation and protects e equipment against corrosion. Damage to the in lation due to the migration of moisture is e nated.

FOAMSEAL® is also used as a joint sealant vapor barrier in the joints of all cellular foam cold insulation work.

FOAMSEAL® is water and weather resistant an often used as a sealant in the laps of metal jac ing and as a flashing compound where metal parts must break an insulation surface.

Meets Military Spec. MIL-S-19564.

U.S.D.A. (M.I.D.) chemically acceptable.

Available in caulking cartridges containing 28 f ounces or 10 fluid ounces.

LIMITATIONS
Permit to cure one week before placing in ser service. Do not apply below 50 F.

Do not use in food storage applications where might affect food flavors and tastes.

The information and data contained herein are based on [illegible] and tests we have [illegible] believed to be true and accurate. However, since conditions of use are beyond our control, we make no guarantee, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be construed as permission or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification.

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APPLICATION GUIDE for
FOSTER FOAMSEAL® SEALANT 30-45

CAUTION: COMBUSTIBLE MIXTURE — Keep away from heat and open flames. Avoid prolonged or repeated contact with skin.

Surface Preparation

Do not thin. Apply to clean dry surfaces only.

Application

(Refer to Guide Specification for recommended coverage)

Apply by trowel, putty knife, hand or power caulking gun. When sealing insulation joints apply FOAMSEAL® at 1/16 to 1/8 inch wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge but maintain a minimum of 1/8 in. wet film thickness in entire area of use. Use backings as specified.

Consult Foster Technical Sales Service for detailed power caulking gun instructions.

Cleaning

Use solvent such as Dow Chemical Company "Chlorothene"® (non-flammable); or mineral spirits (flammable) for cleaning tools and equipment.

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BENJAMIN FOSTER

(C)OVERINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

INSULATION SEALANT 30-46

A moisture, vapor barrier joint sealant and bedding compound for cellular thermal insulation in low temperature systems. U.S.D.A. Chemically Acceptable.

BATCH NO.

CAUTION: COMBUSTIBLE MIXTURE —

Keep away from heat and open flame. Avoid prolonged or repeated contact with skin

• **DIRECTIONS FOR USE**—Do not thin. Apply to clean, dry surfaces only. Apply by trowel, putty knife, hand or power caulking gun. When sealing insulation joints, apply Insulation Sealant 1/16 to 1/8 inch wet thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 inch wet thickness to entire area of use. Use membrane as specified in Guide Specification.

• **LIMITATIONS**—Permit to cure one week before placing in heated service. Do not apply below 30F. Do not use in food storage application where odor might affect food flavors and tastes.

• **CLEAN UP** - Use solvent such as Dow Chemical Company's "Chlorothene"® (non flammable); or mineral spirits (flammable) for cleaning tools and equipment

CONTENTS 5 U.S. GALLONS

Refer to Product Data Sheet for further information.

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10/73 A

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foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-46

FOSTER INSULATION SEALANT

PROPERTIES

COLOR (FSTM-4)
Gray

APPLICATION CONSISTENCY (ASTM D2452)
Caulking gun or trowel

GALLON WEIGHT (ASTM D1475)
13.2 pounds

AVERAGE NON-VOLATILE (ASTM D1644)
99% by weight

COVERAGE (FSTM 71)
Trowel: 10-25 sq. ft. per gallon
(3/16 in. to 1/16 in. wet film thickness)
Caulking Gun:
85 lineal feet per 28 fluid oz. tube (1/4 in. bead)
330 lineal feet per 28 fluid oz. tube (1/8 in. bead)
30 lineal feet per 11 fluid oz. tube (1/4 in. bead)
130 lineal feet per 11 fluid oz. tube (1/8 in. bead)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 50F to 200F

WATER VAPOR TRANSMISSION (ASTM E96)
0.05 perm-inch (Proc. A)
The water vapor transmission through 1 inch of impermeable insulation in 12 in. x 18 in. blocks with ⅛ in. joints of INSULATION SEALER 30-46 is too small to measure.

SAFETY
Wet Flammability (ASTM D93)
No flash to boiling
Dry Combustibility (FSTM 44)
Combustible. Flame spread and fuel contribution negligible when used as sealant in ⅛ in. wide joints on incombustible insulation.

FSTM: Foster Standard Test Method

FOSTER INSULATION SEALANT 30-46 is a cold vapor barrier joint sealant and bedding compo for cellular glass thermal insulation in low tem ature systems.

INSULATION SEALANT thoroughly seals the jo of cellular glass insulation against the entrapp moisture. When used as a bedding compound joint sealant, INSULATION SEALANT provides a tional protection to the blocks of insulation and tects metal equipment against corrosion. Dan to the installation due to the migration of mois is eliminated.

Available in caulking cartridges containing 28 ounces or 11 fluid ounces.

U.S.D.A. (M.I.D.) Chemically acceptable.

LIMITATIONS
Do not apply over greasy, oily, damp or heavy frost. Permit to cure one week before plant heated service. Do not apply below 30F.

Do not use in food storage applications where might affect food flavors and taste.

30-46 complies with Rule 66 of Los Angeles County Pollution Control District.

Form No. 3155-51a
1/74-9-27-554
Destroy previous issues.

The information and data contained herein are based on experiments and tests believed to be reliable. However, no guarantee is made of their accuracy and the products described are sold without warranty, express or implied, except that they conform to our current specifications. The purchaser must test and determine for himself the suitability of such products for his purposes and uses. No statement contained herein may be construed as permitting or recommending the use of any product in violation of any patent or as constituting a recommendation of any product to infringe any patent. Buyer assumes all risk and liability whatsoever in connection with the handling and use of the product. Buyer should obtain from Foster representatives the most recent information concerning the product. Sale of the product is subject to the terms and conditions of sale which are printed on labels or invoices and which are available upon request. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by an officer of Foster.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.

APPLICATION GUIDE for
FOSTER INSULATION SEALANT 30-46

CAUTION: Avoid prolonged or repeated contact with skin.

Material Preparation

Do not thin. Apply to clean dry surfaces only. Keep container closed when not in use to prevent solvent evaporation.

Application

(Refer to Guide Specification for recommended coverage)

Apply by trowel, putty knife, hand or power caulking gun. When sealing insulation joints apply INSULATION SEALANT at 1/16 to ¼ inch wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge but maintain a minimum of ¼ in. wet film thickness in entire area of use. Use membrane as specified.

Consult Foster Technical Sales Service for detailed power caulking gun instructions.

Clean-up

Use solvent such as Dow Chemical Company "Chlorothene"® (non-flammable); or mineral spirits (flammable) for cleaning tools and equipment.

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Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-76
30-79

FOSTER WHITE INSULATION COATI

PROPERTIES

COLOR
White

APPLICATION CONSISTENCY
Brush or spray

WEIGHT PER U.S. GALLON(ASTM D1475-60)
10.6 pounds(Standard Grade)(1.27 kg/litre)
9.3 pounds(Low Temperature Grade)
(1.12 kg/litre)

AVERAGE NON-VOLATILE(ASTM C461-64)
42% by volume (Standard Grade)
29% by volume(Low Temperature Grade)

COVERAGE RANGE (FSTM 71)
(Subject to type of surface being coated)
30-76: Dry Thickness: 0.013 to 0.006 inch
(0.33 to 0.15 mm)
30-79: Dry Thickness: 0.009 to 0.005 inch
(0.23 to 0.13 mm)
Equivalent Wet Coverage for both products:
0.032 in. to 0.016 in.(0.8 to 0.4 mm)
50 to 100 sq.ft. per gallon (1.2 to 2.5 m^2/litre) on smooth, non-porous surface. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

DRYING TIME (ASTM C461-64)
Touch: 1 hour
Through: 4 hours

SERVICE TEMPERATURE LIMITS(FSTM 70)
(Temperature at coated surface)
Minus 20°F to 180°F(-29°C to 82°C)

WATER VAPOR TRANSMISSION(ASTM E96-66)
3.0 Perms minimum at 0.03 in. dry film thickness (2.0 metric perms at 0.8 mm)

HAZARD
Wet Flammability (ASTM D93-73)
30-76: No flash to boiling
30-79: Flash Point 70°F (21°C)
Surface Flame Spread (dry)(ASTM E162-67)
Less than 10 on 1/4 inch Asbestos Cement Board.
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)

Foster White Insulation Coating is a durable protective coating for all types of thermal insulation, including plastic foam insulations. It will seal out dirt and water and provide protection from wear and tear on thermal insulation for indoor and outdoor service. It has a mild odor in the wet state only. May be used in food storage re

The following grades are avail
30-76 White Insulation Coati
30-79 Low Temperature Grade
(formerly Cold Sealer)

30-79 Low Temperature Grade Wh Insulation Coating can be appl readily down to minus 20°F(-29 For outdoor service one additi coat should be applied.

U.S.D.A.(M.I.D.) chemically acceptable.

30-76/79 complies with Rule 66 Los Angeles Air Pollution Con trol District.

LIMITATIONS
Protect 30-76 White Insulation Coating from freezing in stora and when drying. Do not apply 30-76 at temperatures below 4 (4°C). Do not apply either 30- or 30-79 over paints. Certain soft asphalt mastics and paper or fabrics saturated with asp may bleed through these coati

FSTM: Foster Standard Test Met

Form No. 3155-10b
8/75-9-FN-750/FN-765

FOR INDUSTRIAL USE ONLY BY TRAINED AND QUALIFIED CRAFTSMEN.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.

The information and data contained herein are based on experiments and tests believed to be reliable and guarantee is made of their accuracy and the products described are sold without warranty of any kind, either expressed or implied, including those as to fitness for a particular purpose, and no statement made herein shall be construed as a recommendation to use any of such products in conflict with any patent, or as an inducement to infringe existing patents or as an endorsement of the products. Buyer assumes all risk and liability whatsoever in connection with the handling and use of the products. Buyer's sole remedy for any breach of warranty, negligence or otherwise shall be limited to the purchase price paid for the products. Buyer's sole remedy for any breach of warranty, negligence or otherwise shall be limited to the purchase price paid for the products. Buyer's sole remedy for any breach of warranty, negligence or otherwise shall be limited to the purchase price paid for the products.

Application Guide for
FOSTER WHITE INSULATION COATING 30-76, 30-79

WARNING. 30-79 FLAMMABLE. Keep away from heat, sparks and open flame.
Keep container closed. Use with adequate ventilation.
Consult Material Safety Data Sheet for further information.

MATERIAL PREPARATION

Stir well. Do not thin.

APPLICATION

(Refer to Guide Specification for recommended coverage.)

Apply only to clean dry surfaces.

WHITE INSULATION COATING should be applied in two coats at the recommended coverage range with field applied reinforcing fabrics on outdoor service. An additional topcoat is recommended for added weather resistance. Coverage will vary widely with the type of insulation used.

Brush

Use clean paintbrush (type suitable for water base paints). Apply flooding brush coat. Smooth out to uniform thickness.

Spray

WHITE INSULATION COATING may be airless sprayed at 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendation, or call:

Foster Division, Amchem Products, Inc.

Ambler, PA	Houston, TX
215-628-1401	713-481-1200
Chicago, IL	Fremont, CA
312-586-2225	415-797-1430

CLEAN-UP

Use soapy water to clean brushes and equipment before material dries.

FOSTER® COATINGS SEALANTS ADHESIVES FOR THERMAL INSULATION

CERTIFICATION OF FIRE-RESISTANCE

Foster High Velocity Duct Sealer 32-14

This product is certified to have the following characteristics when tested by ASTM Designation E84-61, "Surface Burning Characteristics of Building Materials".

Flame Spread	25	
Fuel Contributed	20	
Smoke Developed	25	
Surface		Applied to Steel
Total Coverage	26.7	square feet per gallon

Certified to meet GSA Dry Flame Spread requirements of less than 25 per interim Federal Standard No. 00136b (Com.-NBS) National Bureau of Standards Radiant Energy Flux Test.

We hereby certify that after the solvents have evaporated this product is non combustible in accordance with NFPA National Fire Code, Section 220(b)

HIGH VELOCITY DUCT SEALANT 32-14

A fast setting, flexible adhesive and joint sealant.

CAUTION: VAPOR HARMFUL...Use only with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin.

• **DIRECTIONS FOR USE**—Do not thin. Apply to clean dry surfaces. Keep container closed when not in use to prevent solvent evaporation. Apply by brush, Foster Gooper™ or pressure extrusion equipment. On spiral duct, apply thick coat to male end of coupling prior to slipping into straight duct. Brush sealant over joint exterior and heads of all metal screws after they are in place and joint is mechanically fastened. Coat both flange faces of rectangular ducts before joining with the flange gasket. Join sections while sealant is still wet (2 to 3 minutes). If skinning occurs on the surface after application, break by slightly twisting metal duct or apply brush application over the first coat. Coverage 25 sq. ft. per gallon.

• **LIMITATIONS**—Do not apply below 30F or above 100F. Do not use with vinyl plastic tapes. Do not pressure test until 48 hours after application.

• **CLEAN UP**—Clean brushes and equipment with Dow Chemical Company "Chloroethene"™ (non flammable) or mineral spirits (flammable).

CONTENTS 5 U.S. GALLONS Refer to Product Data Sheet for additional information FOR INDUSTRIAL USE ONLY

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
32-14
32-15

FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT

PROPERTIES

COLOR (FSTM 4)
Red-Brown — 32-14
Gray — 32-15

APPLICATION CONSISTENCY (ASTM D2507)
Brush or caulking gun

GALLON WEIGHT (ASTM D1475)
7.4 pounds

COVERAGE (FSTM 7)
Brush: 26 sq. ft. per gallon
(0.05 in. wet film thickness)

Caulking Gun:
- 35 lineal feet per 28 fluid oz. tube (1/4 in bead)
- 330 lineal feet per 28 fluid oz. tube (1/8 in. bead)
- 30 lineal feet per 11 fluid oz. tube (1/4 in. bead)
- 130 lineal feet per 11 fluid oz. tube (1/8 in. bead)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 10F to 180F

SAFETY

Wet Flammability (ASTM D1310)
Flash Point less than 30F

Dry Flame Spread (ASTM E84)
15 on ¼ in. Asbestos Cement Board
Certified to meet GSA Requirements

Threshold Limit Value for solvent vapor.
(FSTM 73) T.L.V. 500 ppm

® Trademark of Amchem Products, Inc.
FSTM: Foster Standard Test Method
... 73 5-84
Page of 8 12 3
Form No. 2155-11

FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT is a fast setting flexible compound designed as joint sealant for high velocity air conditioning ducts. It may be used with or without reinforcing tapes. Ventilation or circulating air will remove any residual solvent odors.

Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

FLAME RESISTANT HIGH VELOCITY DUCT SEALANT is also used to seal gaskets where its temperature limits and flexibility are required. It can be used to adhere duct fabrics and flexible tubing mounts to high velocity ducts and to mixing boxes or air diffuser heads.

Meets Carrier Corporation Material Specification PF 01-2

Available in caulking cartridges containing 28 fluid ounces or 11 fluid ounces.

LIMITATIONS

Do not pressure test until 48 hours after application. Do not use with vinyl plastic tapes or asphalt impregnated gasketing.

Do not use if air or surface temperature at time of application is below 30F or above 100F.

Do not use in food storage applications where solvent odor might affect food flavors or taste.

This product is inspected and classified by Underwriters' Laboratories, Inc.

The information and data contained herein are based on experiments and tests we have to be true and accurate to the best of our knowledge and belief but no guarantee is made of their accuracy and the products sold are sold without warranty expressed or implied except to their use, application or performance of the customer and/or user shall make his own tests to determine the suitability of such products for his purposes and uses. No statement contained herein is to be construed as a recommendation to use any product in conflict with any patent rights and we assume no responsibility for patent infringements which may result from the use of our products or from any information or suggestions contained herein. The results to be obtained from the use of our products are dependent upon many factors not within the knowledge of or under the control of the manufacturer and no guarantee is made as to the performance of our products in any specific application. The manufacturer specifically disclaims any implied warranties of merchantability or fitness for a particular purpose and shall not be liable for any loss or damage arising from the use of our products. There are no warranties which extend beyond those expressly made herein.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA

30-47

PROPERTIES

FOSTER CONTRACTION JOINT SEALA

COLOR (ASTM D1729)
Gray

APPLICATION CONSISTENCY (ASTM D2507)
Trowel, caulking gun, or extrusion equipment

GALLON WEIGHT (ASTM D1475)
12.5 pounds

AVERAGE NON-VOLATILE (ASTM D1644)
80% by weight

COVERAGE (FSTM-71)
Trowel: 12 to 25 sq.ft. per gallon (1/8 in. to 1/16 in. wet film thickness)
Caulking Gun & Extrusion Equipment:
1500 lineal feet per gallon at 1/8 inch bead
375 lineal feet per gallon at 1/4 inch bead
307 lineal feet per gallon at 1/16 inch by 1 inch ribbon

DRYING TIME (ASTM C461)
Non-drying

SERVICE TEMPERATURE LIMITS (FSTM-70)
(Temperature at coated surface)
Minus 20F to 200F

SAFETY
Wet Flammability (ASTM D92)
Flash Point 100F
DryCombustibility (FSTM-44)
Combustible
Threshold Limit Value for solvent vapor (FSTM-73) T.L.V. 500 ppm

FSTM: Foster Standard Test Method
9/72-2

Foster Contraction Joint Sealant 30-47 is a non-drying sealant for use in expansion-contraction joint construction of thermal insulation. The non-setting properties of this sealant permit its use in designs where thermall induced movement is anticipated and a seal must be maintained. D to its non-drying properties, 30- may also be used as a sealant for removable covers for cold pipe a equipment.

U.S.D.A. (M.I.D.) chemically acceptable.

LIMITATIONS
Do not apply over dirty, greasy, oily, damp or frosty surfaces. Do not apply below 30F.

Do not apply in areas where un-packaged food is stored since solvent odor may affect food flavor and tastes. Allow to cur one week before storing food in application area. Do not apply protective coatings directly ov sealant as bleed-thru may resul

Form No. 3153-96

The information and data contained herein are based on experiments and tests we have no reason to believe it is not accurate. However, we make no warranty, guarantee or representation as to its accuracy, sufficiency or suitability for any particular use. We assume no responsibility for injury to vendee or third persons or for damage to property arising out of the use of this product whether the defect be latent or discoverable, or for any other loss or damage. We make no warranty of merchantability or any warranty of fitness for a particular purpose, nor shall any statement herein or elsewhere be construed as a warranty of fitness for a particular purpose. Vendee assumes all risk and liability whatsoever in connection with the handling and use of this product, whether used alone or in combination with other products. Vendee agrees that the exclusive remedy for any claim arising out of the sale or use of this product shall be limited to the purchase price paid.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.

Published by AsbestosClaims.Law
asbestosclaims.law/library/25106/35

APPLICATION GUIDE

for

CONTRACTION JOINT SEALANT 30-47

CAUTION: FLAMMABLE MIXTURE - Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin.

MATERIAL PREPARATION

Do not thin. Apply to clean, dry surfaces only. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

Extrusion

Apply in single or multiple beads with caulking gun, air-operated power extrusion flow gun equipment. Pumps of 9:1 to 55:1 ratio are adequate for most production line applications. Consult Foster Technical Sales Service for detailed extrusion equipment.

Trowel

Use clean steel trowel. Apply with firm pressure. Press surface of materials to be sealed into place making sure that complete contact is made.

CLEAN-UP

Use solvents such as Dow Chemical Company "Chlorothene"® (non-flammable) or xylol (flammable) for cleaning equipment.

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COATINGS
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CERTIFICATION OF FIRE-RESISTANCE

Foster Fire Resistive Mastic 60-60

This product is certified to have the following characteristics when tested by ASTM Designation E84, "Surface Burning Characteristics of Building Materials".

Flame Spread	30
Fuel Contributed	5
Smoke Developed	Over 500
Surface	½ inch Asbestos Cement Board
Total Coverage	per gallon 8.3 square feet

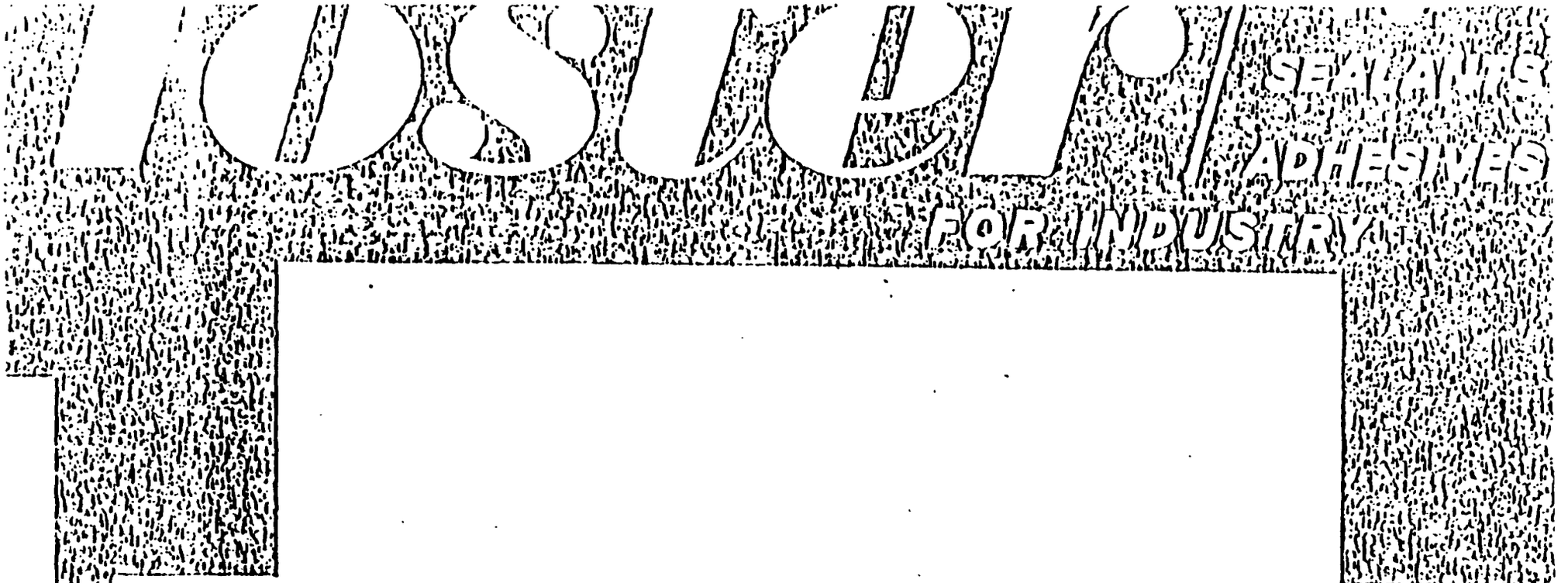
We hereby certify that when the solvents have evaporated this product is non-combustible in accordance with NFPA National Fire Code Section #255

Certified to meet GSA Dry Flame Spread requirements of less than 25 when tested by ASTM Designation E162

FIRE RESISTIVE MASTIC

60-60 SPRAY

Meets Military Specification MIL-C-19565B Type I
A non-asphalt mastic for protection of metals and thermal insulations which are not affected by solvents.



30-56

Warning! Flammable Mixture - Keep Away From Heat, Sparks And Open Flame

Keep container closed. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Do not take internally.

• DIRECTIONS FOR USE-- Consult Foster Technical Service for product data sheet.

CONTENTS 5 U.S. GALLONS

Refer to Product Data Sheet for further information.

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ASBESTOS

FOR INDUSTRY

30-56

Warning! Flammable Mixture - Keep Away From Heat, Sparks And Open Flame

Keep container closed. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Do not take internally.

• DIRECTIONS FOR USE-- Consult Foster Technical Service for product data sheet.

CONTENTS 5 U.S. GALLONS

Refer to Product Data Sheet for further information.

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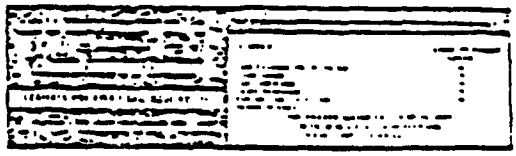
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Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-35 30-56

FOSTER TITE-FIT COATINGS



FOSTER TITE-FIT COATING is a flexible, fire resistive vapor barrier coating for rigid thermal insulation. It was designed for coating fibrous glass insulation fittings. It meets the requirements of Military Specification MIL-C-19565B, Type II.

PROPERTIES

COLOR (ASTM D1729)
30-35 White
30-56 Gray

APPLICATION CONSISTENCY (ASTM D2507)
Brush, Glove, or Spray

GALLON WEIGHT (ASTM D1475)
11.0 pounds

AVERAGE NON-VOLATILE (ASTM C461)
45% by volume

THICKNESS & COVERAGE (FSTM 71)
(Subject to type of surface and nature of material being coated)
Wet Coverage: 1/16 in. (4 gallons per 100 sq. ft. minimum) on smooth, non-porous surface. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

DRYING TIME (ASTM C461)
Touch: 4 hours
Through: 24 hours

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
20F to 150F

WATER VAPOR TRANSMISSION (ASTM E398)
0.05 perm at 0.055 inch dry film thickness

SAFETY
Wet Flammability (ASTM D93)
Flash Point 110F
Dry Flame Spread (ASTM E84)
20 on 1/4 in. Asbestos Cement Board
Threshold Limit Value for solvent vapor
(FSTM 73) T.L.V. 500 ppm

LIMITATIONS

Not recommended for outdoor exposure.

Some plastic foams may be attacked by the solvent in this product. The user should establish by his own test that this will not occur.

Do not use in food storage applications where solvent odor might affect food flavors or taste.

These products are inspected and classified by Underwriters' Laboratories, Inc.

FSTM - Foster Standard Test Method
Form No. 0188-8a
10-73-12-5M
Reprinted 2-73-12

The information and data contained herein are based on experiments and tests we have no reason to doubt are accurate and reliable, but such information and data are given without warranty, representation or guarantee of any kind as to their accuracy or applicability. We suggest and urge that you make your own tests to determine for yourself the suitability of our products for your particular purpose. Nothing contained herein shall be construed as a recommendation to use any product in conflict with any patent covering its use. We assume no responsibility for the use of these products by you or others, and you agree that we shall not be liable for any loss or damage arising therefrom. We reserve the right to change specifications without notice.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.

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Application Guide for
FOSTER TITE-FIT COATINGS

CAUTION: COMBUSTIBLE MIXTURE—Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor and prolonged or repeated contact with skin.

MATERIAL PREPARATION

Stir well. Do not thin. Apply only to a clean dry surface. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

(Refer to Guide Specification for recommended coverage)

Apply TITE-FIT COATINGS by brush, glove or spray at 1/16 in. wet film thickness with or without membrane as specified. When fitting halves are assembled in the field, use mechanical attachment.

Brush or Glove

Use a good brush, making strokes as long as possible over the surface of a fitting. In glove application wet the glove with clean-up solvent (xylol) occasionally to improve slip and give a smooth appearance to the work.

Spray

CONVENTIONAL—TITE-FIT COATINGS may be air sprayed at approximately 20 gallons per hour using a 9:1 Graco pump with a Binks 7E2 gun, 1/4 in. internal cap and nozzle and 50 feet of 1/2 in. i.d. fluid hose.

AIRLESS—TITE-FIT COATINGS may be airless sprayed at approximately 50 gallons per hour using a 30:1 Graco pump, Graco Gun 206-715 with Reverse-A-Clean tips ranging from 529 to 643 through 50 feet of 1/2 in. i.d. fluid hose, and Spee-Flo® heater 913-402 (4 kw. electric capacity).

Other spray equipment may be used but spray rates may differ. Consult Foster Technical Sales Service for detailed spray instructions.

CLEAN-UP

Use a solvent such as Dow Chemical Company "Chlorothene"® (non-flammable) or mineral spirits (flammable) for cleaning brushes and equipment.

DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

Guide BNEV — April 27, 1970 — R25931
Coatings, General Purpose.
Foster, Benjamin, Div. of Amchem Products, Inc.
Vapor-barrier coatings.

Fire Hazard Classification of Applied coatings
1/4-in. Asbestos-Cement Board

Total coverage (sq. ft. per gal.)	50
Flame spread	20
Fuel contributed	10
Smoke developed	10
Rate per Coat (sq. ft. per gal.)	50
Number of Coats	1

Fire Hazard Classification of Solvents 30 to 40 [illegible] with kerosene
Flash point (closed cup) 110 F.
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Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-61

HEAT TRANSFER CEMENT IN READY-TO-APPLY EXTRUDED TAPE FORM.

PROPERTIES

COLOR (FSTM 4)
Black

APPLICATION CONSISTENCY (ASTM D217-68)
Cone penetration (Modified)
300 gm. Total Moving Load 9 to 12 mm.

DENSITY
Approximately 80 lbs./ft.³ (1.29 g/cc)

NON-VOLATILE (ASTM D1644-59)
100%

THERMAL CONDUCTIVITY (COLORA TEST)
(k) Factor (av.) 6.4 Btu inch/hour, sq. ft., °F,
at 104°F mean

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 100°F to 400°F
(Minus 73°C to 204°C)

SIZES AVAILABLE
3/8"—for 3/8" and 1/2" diameter tracer lines.
5/8"—for 5/8", 3/4", and 1" diameter tracer lines.
Also available: 1" x 30" x 20'*
*Tracer grooved

SHEAR STRENGTH (ASTM D816-55)
Cured 2hrs. @ 350°F (177°C) on steel.
170 psi @ 75°F (24°C).

FSTM: Foster Standard Test Method
® Trademark of Amchem Products, Inc.
ASTM No. D1644-59e
Cured
Patent Pending.

THERMFAS® HEAT TRANSFER TAPE

FOSTER THERMFAS® HEAT TRANSFER TAPE 30-61 is a 100% non-volatile, water resistant, heat reactive, heat transfer cement designed to improve the efficiency of conventional steam tracing or electrical resistance heating systems. It is intended for application along the juncture between heating tracer and pipe or vessel to provide a relatively high conductivity heat path. 30-61 performs in heating or cooling service.

THERMFAS® HEAT TRANSFER TAPE can be used in high humidity and corrosive fume atmospheres. It need not be protected from rain before insulating.

THERMFAS® HEAT TRANSFER TAPE is heat-reactive and requires heat to cure and become hard. It remains tacky until heat is applied. The rate of cure depends upon the temperature and time. 30-61 need not be cured to perform its heat transfer function.

Convenience, cleanliness and ease of handling, as well as freedom from waste, reduce labor cost and speed the application.

30-61 complies with Rule 66 for Los Angeles County Pollution Control District.

LIMITATIONS
For ease of application, 30-61 should be above 50°F (10°C). 30-61 will have a shelf life of one year if stored below 100°F (38°C).

The information and data given herein are based on experience and tests believed to be reliable, however, no guarantee is made of their accuracy and the products described are sold without warranty expressed or implied. Recommendation or assistance is furnished without charge and at user's risk. Since the conditions of use are beyond our control, we disclaim any liability incurred in connection with the use of these products or the reliance upon the information contained herein. Nothing herein is to be construed as a recommendation to infringe existing patents or as an endorsement of the products of other manufacturers. The customer is advised that he alone is responsible for determining whether the products are safe, suitable and adequate for the use contemplated, and that he alone assumes all risks and liability whatsoever in connection therewith. Unless otherwise stated, our products are not designed for use in food contact applications. Buyer's sole remedy for breach of warranty, if any, shall be limited to the purchase price of the product. Buyer's sole remedy for any claim arising out of the sale of any product, whether based on contract or tort, shall be limited to the purchase price of the product upon which such claim is based. Seller shall not be liable for consequential damages.

FOSTER DIVISION
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Application Guide for
THERMFAS® HEAT TRANSFER TAPE 30-61

APPLICATION

To assure optimum bond to metal, the surface should be clean, dry, and free of rust, scale, oil or mill varnish prior to attaching the tracer and applying 30-61. A portable sandblaster or a grinding wheel can be used for cleaning the metal surface.

Apply the 30-61 tape to both sides of the tracing at the point of contact with pipe line. It can be forced into the crevice between tracer and pipeline by finger pressure, but in some cases it may be desirable to tool it in with a pointed trowel, a roller or similar device. The contact area of the 30-61 on the traced pipe or vessel should be a minimum of twice the diameter of the tracing element.

CURING TIME

30-61 will not air dry. It remains tacky until heat is applied. The rate of cure is dependent on temperature (ranging from about 48 hours at 212°F (100°C) to ½ hour at 400°F (204°C). Application of thermal insulation to the process lines will expedite curing of 30-61 when heat is applied.

BOSTIK

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

HILASTIC® MASTIC 60 - 99

A durable bituminous emulsion mastic for thermal insulation on heated pipes and vessels.

• **DIRECTIONS FOR USE**—Do not thin. Stir well but do not use sticks or paddles which could splinter or otherwise contaminate the product. Apply only to clean, dry surfaces by trowel or spray. (Spray instructions available.) Apply tack coat by desired method and embed HASI-A-FAB WHITE MEMBRANE into wet coat. Apply finish coat before the tack coat has dried through. May be applied with rubber glove. Coverage—2 to 8 gallons per 100 sq. ft.

• **LIMITATIONS**—Protect against freezing. Do not apply below 40°F or when air or surface temperature is expected to go below 40°F before mastic is dry. Do not use in areas where oil or solvent spillage is anticipated.

• **CLEAN UP**—Clean equipment with fresh water before product dries. After product has dried use Dow Chemical Company "Chlorothene"® (non flammable) or mineral spirits (flammable).

CONTENTS 5 U.S. GALLONS (18.9 LITRES) **Refer to Product Data Sheet for further information.** **FOR INDUSTRIAL USE ONLY**
by trained and qualified craftsmen

® Registered Trademark

0/75 1500

Printed in U.S.A.

BATCH NO.

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FOSTER®

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

CERTIFICATION OF FIRE-RESISTANCE

FOSTER LAGTONE® COATING 30-70

This product is certified to have the following characteristics when tested by ASTM Designation E84-70 "Surface Burning Characteristics of Building Materials".

Flame Spread	30
Fuel Contributed	5
Smoke Developed	55 - 125
Surface	¼ Inch Asbestos Cement Board
Total Coverage	25 square feet per gallon

Certified to meet GSA Dry Flame Spread requirements of less than 25 when tested by ASTM Designation E162-67

We hereby certify this product to be Non-Combustible in accordance with NFPA National Fire Code, Section 220(b).

LAGTONE® COATING 30-70 WHITE

APPROVED

A tough flexible, fire-resistive finish for use on all types of thermal insulation.

- DIRECTIONS FOR USE—Stir well, do not thin. Apply only to clean, dry surfaces. Apply by brush or spray (Spray instructions available) in two coats at 50 to 100 sq. ft. per gallon per coat with field applied reinforcing fabric between coats. An additional topcoat is recommended for outdoor service.
- LIMITATIONS - Protect from freezing. Do not apply below 40°F or above 100°F. Do not apply over paints. Certain soft asphalt mastics, and papers or fabrics saturated with asphalt may bleed through Lagtone.®
- CLEAN UP—Clean equipment with soapy water before material dries.

CONTENTS 5 U.S. GALLONS

Refer to Product Data Sheet for additional information.

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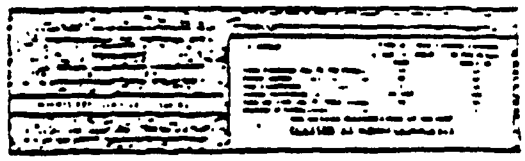
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foster® | COATINGS SEALANTS ADHESIVES | PRODUCT DATA 30-70 31-90

FOSTER LAGTONE® COATINGS



PROPERTIES

COLORS (ASTM D1729-69)
30-70 White
31-90 Gray

APPLICATION CONSISTENCY (ASTM D2507-70)
Brush or spray

WEIGHT PER U.S. GALLON (ASTM D1475-60)
11.4 pounds (1.4 kg/liter)

AVERAGE NON-VOLATILE (ASTM C461-64)
43% to 44% by volume
(depending on color selected)

THICKNESS AND COVERAGE (FSTM 71)
Dry Thickness: 0.017 to 0.007 inch (.43 to .15mm)
Equivalent Wet Coverage: 0.032 inch to 0.016 inch (.81 to .41mm), 50 to 100 sq. ft. per gallon (1.2 to 2.5m²/liter) on smooth non-porous surfaces. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

DRYING TIME (ASTM C461-64)
Touch: 1 hour
Through: 4 hours

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 50°F to 180°F (minus 46°C to 82°C)

WATER VAPOR TRANSMISSION (ASTM E96-66)
3.0 perms at 0.025 in. dry thickness

SAFETY
Wet Flammability (ASTM D93-72)
Non-flammable
Dry Flame Spread (ASTM E84-70)
30 on 1/4 in. Asbestos Cement Board
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)

FSTM: Foster Standard Test Method
® Trademark of Amchem Products, Inc.
10/74-11-5M
Form No. 2155-9c P.
SFN-133; SFD-814 802, LFN-1112

FOSTER LAGTONE® COATING is an emulsion type polymeric protective coating. It forms a tough, flexible finish which can be used on all types of thermal insulation, including the expanded polystyrene and polyurethane foam insulations.

Use LAGTONE® COATING as a combination adhesive and coating for cementing and sealing light weight factory applied fabrics such as 8 ounce canvas or muslin.

Use LAGTONE® COATING over hard asphalt weather-coats to provide color and additional weather resistance. Some flame spread resistance is added to an insulation system when LAGTONE® COATING is applied in 2 coats with 20 X 20 white glass cloth over existing asphalt weather-coats. LAGTONE® COATING is suitable for coating over asbestos-cement board and masonry to blend with adjacent coated insulations.

LAGTONE® COATINGS are resistant to dilute acids and alkalies, solvents, and water. They have a mild odor during application.

30-70 and 31-90 comply with Rule 66 for Los Angeles County Air Pollution Control District.

LIMITATIONS

Protect from freezing. Do not apply below 40°F (4°C) or above 100°F (38°C). Do not apply over other paints. Certain soft asphalt mastics papers or fabrics saturated with asphalt may bleed.

These products are classified by Underwriters' Laboratories, Inc.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

[illegible]

Application Guide for
FOSTER LAGTONE® COATINGS

MATERIAL PREPARATION

Stir well. Do not thin.

APPLICATION

(Refer to Guide Specification for recommended coverage)

Apply only to clean dry surfaces.

LAGTONE® Coating should be applied in two coats at the recommended coverage with field applied reinforcing fabrics on outdoor service. An additional topcoat is recommended for added weather resistance. Coverage will vary widely with the type of insulation used.

Brush

Use clean paintbrush. (Type suitable for water base paints). Apply flooding brush coat. Smooth out to uniform thickness.

Spray

Foster LAGTONE® Coatings may be airless spray applied at 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendations, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-596-2225	Fremont, CA 415-797-1430

CLEAN-UP

Use soapy water to clean brushes and equipment before material dries.

DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

Guide BNEV. October 21, 1974 R2583F.
Coatings, General Purpose.
Amchem Products, Inc., Foster Div.

Surface	Fire Hazard Classification of Applied Coating (White or Tinted Polymer Emulsion) ¼ in. Asbestos Cement Board	Calcium Silicate Board
Total coverage (sq ft per gal)	25	25
Flame spread	30	40
Fuel contributed	5	10
Smoke developed	85-125	250
Rate per Coat (sq ft per gal)	25	25
Number of Coats	1	1

Fire Hazard Classification of Solvent
Classed as nonflammable

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BENJAMIN FOSTER®

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

WHITE INSULATION COATING 30-76

A durable protective coating for all types of thermal insulation.

• DIRECTIONS FOR USE—Stir well, do not thin. Apply only to clean, dry surfaces. Apply by brush or spray (spray instructions available). WHITE INSULATION COATING should be applied in two coats at a coverage of 50 to 100 sq. ft. per gallon. An additional topcoat is recommended for added weather resistance.

• LIMITATIONS– Protect from freezing. Do not apply at temperatures below 40f. Do not apply over paints. Certain soil asphalt mastics and papers or fabrics saturated with asphalt may bleed.

• CLEAN UP—Use clean water to clean the equipment.

CONTENTS 5 U.S. GALLONS Refer to Product Data Sheet for additional information. FOR INDUSTRIAL USE ONLY

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Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
30-76
30-79

FOSTER WHITE INSULATION COATING

PROPERTIES

COLOR
White

APPLICATION CONSISTENCY
Brush or spray

WEIGHT PER U.S. GALLON (ASTM D1475-60)
10.6 pounds (Standard Grade) (1.27 kg/litre)
9.3 pounds (Low Temperature Grade)
(1.12 kg/litre)

AVERAGE NON-VOLATILE (ASTM C461-64)
42% by volume (Standard Grade)
25% by volume (Low Temperature Grade)

COVERAGE RANGE (FSTM 71)
(Subject to type of surface being coated)
30-76: Dry Thickness: 0.013 to 0.006 inch
(0.33 to 0.15 mm)
30-79: Dry Thickness: 0.009 to 0.005 inch
(0.23 to 0.13 mm)
Equivalent Wet Coverage for both products:
0.032 in. to 0.016 in. (0.8 to 0.4 mm)
50 to 100 sq.ft. per gallon (1.2 to 2.5 m^2/litre) on smooth, non-porous surface. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

DRYING TIME (ASTM C461-64)
Touch: 1 hour
Through: 4 hours

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 20°F to 180°F (-29°C to 82°C)

WATER VAPOR TRANSMISSION (ASTM E96-66)
3.0 Perms minimum at 0.03 in. dry film thickness (2.0 metric perms at 0.8 mm)

HAZARD
Wet Flammability (ASTM D93-73)
30-76: No flash to boiling
30-79: Flash Point 70°F (21°C)
Surface Flame Spread (dry) (ASTM E162-67)
Less than 10 on 1/4 inch Asbestos Cement Board.
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)

Foster White Insulation Coating is a durable protective coating for all types of thermal insulation, including plastic foam insulations. It will seal out dirt and water and provide protection from wear and tear on thermal insulation for indoor and outdoor service. It has a mild odor in the wet state only. May be used in food storage rooms

The following grades are available:
30-76 White Insulation Coating
30-79 Low Temperature Grade (formerly Cold Sealer)

30-79 Low Temperature Grade White Insulation Coating can be applied readily down to minus 20°F (-29°C). For outdoor service one additional coat should be applied.

U.S.D.A. (M.I.D.) chemically acceptable.

30-76/79 complies with Rule 66, Los Angeles Air Pollution Control District.

LIMITATIONS
Protect 30-76 White Insulation Coating from freezing in storage and when drying. Do not apply 30-76 at temperatures below 40°F (4°C). Do not apply either 30-76 or 30-79 over paints. Certain soft asphalt mastics and papers or fabrics saturated with asphalt may bleed through these coatings

FSTM: Foster Standard Test Method

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Form No. 3155-10b
8/75-9-PN-753/PN-765

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FOSTER DIVISION
AMCHEM PRODUCTS, INC.

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asbestosclaims.law/library/25106/49

Application Guide for
FOSTER WHITE INSULATION COATING 30-76, 30-79

WARNING: 30-79 FLAMMABLE. Keep away from heat, sparks and open flame.
Keep container closed. Use with adequate ventilation.
Consult Material Safety Data Sheet for further information.

MATERIAL PREPARATION

Stir well. Do not thin.

APPLICATION

(Refer to Guide Specification for recommended coverage.)

Apply only to clean dry surfaces.

WHITE INSULATION COATING should be applied in two coats at the recommended coverage range with field applied reinforcing fabrics on outdoor service. An additional topcoat is recommended for added weather resistance. Coverage will vary widely with the type of insulation used.

Brush

Use clean paintbrush (type suitable for water base paints). Apply flooding brush coat. Smooth out to uniform thickness.

Spray

WHITE INSULATION COATING may be airless sprayed at 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendation, or call:

Foster Division, Amchem Products, Inc.

Ambler, PA	Houston, TX
215-628-1401	713-481-1200
Chicago, IL	Fremont, CA
312-586-2225	415-797-1430

CLEAN-UP

Use soapy water to clean brushes and equipment before material dries.

WHITE INSULATION COATING

LOW TEMPERATURE GRADE

30-79

A durable protective coating for application at lower temperatures to all types of thermal insulation.

- **DIRECTIONS FOR USE** — Stir well, do not thin. Apply only to clean, dry surfaces. Apply by brush or spray (spray instructions available). This coating is suitable for application down to temperatures of 20F. WHITE INSULATION COATING should be applied in two coats at a coverage of 50 to 100 sq. ft. per gallon. An additional topcoat is recommended for added weather resistance.

- **LIMITATIONS** — Do not store or apply below 20F. Do not apply over paints. Certain soft asphalt mastics and papers or fabrics saturated with asphalt may bleed.

- **CLEAN UP** — Use clean water to clean the equipment.

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APPLICATION GUIDE for FOSTER FLAME RESISTANT HIGH VELOCITY DUCT SEALANT 32-14/32-15

CAUTION: FLAMMABLE MIXTURE—Keep away from heat, sparks and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor and prolonged or repeated contact with skin.

Material Preparation

Do not thin. Apply to clean, dry surfaces only. Keep container closed when not in use to prevent solvent evaporation.

Application

(Refer to Guide Specification for recommended coverage)

Apply by brush or pressure extrusion equipment.

On spiral duct apply a thick coat of sealant to the male end of the coupling prior to slipping the straight run of spiral duct over it. Brush excess sealant over the exterior of the joint and over the heads of all metal screws after they are in place and the joint is mechanically fastened. On the flanges of rectangular ducts both flange faces should receive a coat of sealant before joining with the flange gasket.

Join and bond while the sealant is still wet (2-3 min.). If the material should skin on the surface after application, this may be broken by a slight twisting action of the metal duct or a fresh application over the first coat sealant.

Consult Foster Technical Sales Service for detailed pressure extrusion instructions.

Clean-up

Use a solvent such as Dow Chemical Company "Chlorothene"™ (non-flammable); or mineral spirits (flammable) for cleaning tools and equipment.

DATA REPRODUCED FROM UNDERWRITERS' LABORATORIES, INC. BUILDING MATERIALS DIRECTORY

Guide BJLZ. March 8, 1972 R4297A.

Adhesives.
Foster, Benjamin, Div. of Amchem Products, Inc., Ambler, Pa. 19002.

Fire Hazard Classification

	Applied to Asbestos-Cement Board	Applied to Steel
Flame spread	15	20
Fuel contributed	15	20
Smoke developed	0	15

Tested as applied in a 7 in. wide strip 0 in. on center at a coverage of 25.7 sq. ft. per gal. Flash point of Foster adhesives tested out, no flash to boiling and less than 200 respectively.

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BOSTIK

FOR INDUSTRY

32-15

Warning! Flammable Mixture - Keep Away From Heat, Sparks And Open Flame

Keep container closed. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Do not take internally.

- DIRECTIONS FOR USE—Consult Foster Technical Service for product data sheet.

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APPLICATION GUIDE for
FOSTER FIBROUS ADHESIVE

Material Preparation

Stir well, do not thin. Apply only to clean, dry surfaces.

Application

(Refer to Guide Specification for recommended coverage)

Brush

Use clean paintbrush and apply evenly at recommended coverage. Bond immediately with firm pressure.

Trowel

Use notched trowel. Apply evenly at recommended coverage. Bond immediately with firm pressure. May be applied with rubber gloves on small roofing jobs and repairs.

Clean-Up

Clean brushes and equipment with water.

foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA

81-33

FOSTER FIRE RESISTIVE ADHESIVE

PROPERTIES

COLOR (FSTM 4)

Gray

APPLICATION CONSISTENCY (ASTM D2507-70)

Trowel

WEIGHT PER U.S. GALLON(ASTM D1475-60)
12.9 pounds (1.55 kg/liter)

COVERAGE (FSTM 72)
(Subject to type of surface and nature of material being attached.) 25 to 40 sq. ft. per gal. (0.063 in. to 0.040 in. wet film thickness) (0.6 to 1.0 m^2/liter at 1.6 to 1.0 mm wet).

BONDING TIME (FSTM 66)
2 to 10 minutes

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 50°F to 300°F(-46°C to 149°C)

SAFETY

Wet Flammability (ASTM D93-72)
Flash point 60°F (16°C)

Dry Flame Spread (ASTM E162-67)
5 on ¼ in. Asbestos Cement Board
The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.
Certified to meet GSA Requirements.

Threshold Limit Value for solvent vapor(FSTM 73)T.L.V. 100 ppm

FSTM:Foster Standard Test Method
®Trademark of Amchem Products, Inc.
Form No. 3155-36a
2/75-8-BFO-912/913

FOSTER FIRE RESISTIVE ADHESIVE 81-33 is a superior adhesive for cementing thermal insulation to all structural surfaces. It is quick-setting, with good specific adhesion to iron, steel, aluminum, and most thermal insulations. Can be used without mechanical fastening for marine hull insulation.

FIRE RESISTIVE ADHESIVE 81-33 is the preferred adhesive for use with rigid polyurethane insulations. It can be used as a fabricating adhesive in making fittings, as a joint sealer and adhesive in the joints of polyurethane insulation, and as an adhesive to attach insulation to equipment surfaces. Bonds of polyurethane to itself made with FIRE RESISTIVE ADHESIVE are stronger than the base insulation.

FIRE RESISTIVE ADHESIVE 81-33 is recommended to withstand surface temperatures up to 300F, but it has been subjected to higher temperatures for short intervals with good results. Its excellent resistance to water and high humidity makes it a good sealing compound for joints and seams of insulation on cold water piping and equipment.

LIMITATIONS

Galvanized metal must be treated with Amchem Lithoform® No. 2 or vinyl wash primer. Do not apply below 40°F(4.4°C) or above 100°F(37.8°C).

Some plastic foams and some vinyl films may be attacked by the solvent in this product. User should establish by his own test that this will not occur.

Do not use in food storage applications where odor might affect food flavors and taste.

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FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

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Buyer shall make as a condition of sale that he will strictly test and examine the material or use before using it in any process in which failure or faulty performance could cause injury to persons or property, and that he assumes all risk and liability for results obtained or damages incurred from the handling or use of the material in his process.

APPLICATION GUIDE for
FIRE RESISTIVE ADHESIVE 81-33

WARNING! FLAMMABLE MIXTURE. Keep away from heat, sparks, and open flame. Use with adequate ventilation. Avoid Prolonged or repeated contact with skin. Keep container closed when not in use.

Material Preparation

Remove paper disc and any skin on surface of adhesive in container. Stir well. Do not thin. Apply only to clean, dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

Application

(Refer to Guide Specification for recommended coverage)

Galvanized metal must be treated with Amchem Lithoform® No. 2 or with vinyl wash primer and allowed to dry.

Serrated Trowel

Use steel trowel with square teeth ½ inch wide, ½ inch deep and ½ inch apart. Trowel with firm pressure leaving ridges of adhesive. Press insulation firmly into place to obtain complete contact. On rough or porous surfaces a thicker application of adhesive will be required in order to assure contact between the insulation and the substrate.

Clean-up

Use a solvent such as Dow Chemical Company "Chlorothene"® (non-flammable); or xylol (flammable).

BENJAMIN FOSTER

SEALANTS
ADHESIVES
FOR INDUSTRY

FIBROUS ADHESIVE
81-93
TROWEL

Meets Military Specification MIL-A-15199

A sodium silicate based adhesive for lagging asbestos cloth on high temperature insulation.

Certified to meet GSA Dry Flame Spread requirements of less than 25 when tested by ASTM Designation E162-67

BATCH NO.

- **DIRECTIONS FOR USE** — Stir well, do not thin. Apply FIBROUS ADHESIVE only to clean, dry surfaces by trowel. Bond immediately with firm pressure. Coverage 25 to 30 sq. ft. per gallon.

- **LIMITATIONS** — Do not use where exposed to water. Do not use with glass or mineral wool insulation. Primed or painted surfaces should be tested for compatibility with FIBROUS ADHESIVE before using.

- **CLEAN UP** — Clean brushes and equipment with water.

CONTENTS 5 U.S. GALLONS

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Refer to Product Data Sheet for additional information.

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foster

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
81-27
81-93

FOSTER FIBROUS ADHESIVE

FOSTER FIBROUS ADHESIVE is a sodium silicate based adhesive for lagging asbestos cloth on high temperature insulation. It offers maximum adhesion and optimum working qualities and forms a hard, brittle incombustible film.

FIBROUS ADHESIVE can be used to adhere dense thermal insulation such as calcium silicate, 85% magnesia, amosite, asbestos block, and asbestos felt to itself and to non-porous surfaces.
Meets Military Specification MIL-A-15199.
Furnished to meet MIL-I-24244 as 81-27Q.

PROPERTIES

COLOR (ASTM D1729)
Gray

APPLICATION CONSISTENCY (ASTM D2507)
Brush: 81-27
Trowel: 81-93

GALLON WEIGHT (ASTM D1475)
12.4 pounds

COVERAGE (FSTM 72)
(Subject to nature of material being coated)
40 to 50 sq. ft. per gal. (81-27)
(0.040 in. to 0.032 in. wet film thickness)
25 to 30 sq. ft. per gal. (81-93)
(0.064 in. to 0.046 in. wet film thickness)

BONDING TIME (FSTM 66)
0 to 5 minutes (81-27)
0 to 3 minutes (81-93)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
50F to 800F

SAFETY
Wet Flammability: (ASTM D93)
Non-flammable
Dry Combustibility: (FSTM 44)
Incombustible
Dry Flame Spread (ASTM E162)
0 on ¼ in. Asbestos Cement Board
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)
Certified to meet GSA Requirements

LIMITATIONS

Since the dry film is soluble in water, it should not be used where moisture will be encountered. Because of its sodium silicate base, this product is not recommended for use with glass or mineral wool insulation. Primed or painted metal surfaces should be tested for compatibility with FIBROUS ADHESIVE.

®Trademark of Amchem Products, Inc
FSTM: Foster Standard Test Method

Form No. 3155-55b
3/75-5

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FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

The information and data contained herein are based on experiments and tests believed to be reliable. However, guarantee is made of their accuracy and the products described are sold without warranty expressed or implied upon the satisfaction of performance. The purchaser and/or user shall make his own tests to determine the fitness of such products for his purposes and uses. No statements contained herein shall be construed as a recommendation to infringe existing patents or as an endorsement of the products of other manufacturers. The claims made are based upon data obtained under laboratory conditions. Variations in performance may occur depending upon prevailing conditions at the time of application, including but not limited to, surface preparation, methods and conditions of application over which we exercise no control. We recommend that the purchaser test the products thereof to determine for himself the suitability of the products for his purposes and intended uses. Any recommendations which we make concerning the use of our products are those of a condition of sale that we will grant credit for material found by us defective in quality or workmanship, provided we receive notice thereof within 30 days from date of delivery. But that we assume no liability whatsoever, even if we have been informed of such purposes or uses.

APPLICATION GUIDE for FOSTER FIBROUS ADHESIVE

Material Preparation

Stir well, do not thin. Apply only to clean, dry surface.

Application

(Refer to Guide Specification for recommended coverage)

Brush

Use clean paintbrush and apply evenly at recommended coverage. Bond immediately with firm pressure.

Trowel

Use notched trowel. Apply evenly at recommended coverage. Bond immediately with firm pressure. May be applied with rubber gloves on small radius pipe and vessels.

Cleaning

Clean brushes and equipment with water.

BOSTIK

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

H. I. MASTIC®
90-07

A highly durable emulsion type breathing mastic weathercoat for protecting thermal insulation.

• **DIRECTIONS FOR USE**—Do not thin. Apply only to clean dry surfaces. Use Foster Primer Black, 81-86 over dusty surfaces. Apply by trowel or spray (spray instructions available. Apply one inch hexagonal wire mesh to insulation, then apply H. I. Mastic® evenly either by trowel or spray. An alternate method is to apply a tack coat at 6 to 8 gallons per 100 sq. ft., then embed a layer of Foster Mast-A-Fab® white membrane and apply a finish coat at 6 to 8 gallons per 100 sq. ft. over the membrane.

• **LIMITATIONS**—Protect from freezing in storage and during application. Exposure to severe freezing conditions during application or before the final cure may cause cracking. Do not store or apply below 40° or above 100°F.

• **CLEAN UP**—Clean equipment with fresh water before mastic dries. Use Dow Chemical Company's "Chlorothene"® (non flammable) or mineral spirits (flammable) after mastic dries.

CONTENTS 5 U.S. GALLONS (18.9 LITRES) **Refer to Product Data Sheet for further information.** **FOR INDUSTRIAL USE ONLY**
by trained and qualified craftsmen

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6/75 17,000

Printed in U.S.A.

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foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
90-07
90-10

PROPERTIES

COLOR (FSTM 4)
Black

APPLICATION CONSISTENCY
Trowel or spray

WEIGHT PER U. S. GALLON (ASTM D1475-60)
9.4 pounds (1.13 kg/liter) (Average)

AVERAGE NON-VOLATILE (ASTM C461-64)
40% to 45% by volume

THICKNESS & COVERAGE (FSTM 71)
(Subject to nature of material being coated). Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

Dry Thickness: 0.080 to 0.106 inch (2.0 to 2.7 mm)
Equivalent Wet Coverage: 0.19 in. to 0.250 in. (4.8 to 6.4 mm)
(12 to 16 gallons per 100 sq. ft.) on smooth non-porous surface.

Tack Coat:
Dry Thickness: 0.040 to 0.053 inch
Equivalent Wet Coverage: 0.094 in. to 0.125 in. (6 to 8 gallons per 100 sq. ft.) on smooth non-porous surface.

Finish Coat:
Dry Thickness: 0.040 to 0.053 inch
Equivalent Wet Coverage: 0.094 in. to 0.125 in. (6 to 8 gallons per 100 sq. ft.) on smooth non-porous surface.

DRYING TIME (ASTM C461-64)
90-07: Touch: 1 hour at 73°F (22.8°C)
Through: 8 hours at 73°F (22.8°C)
90-10: Touch: 8 hours at 60°F (15.6°C)
24 hours at 20°F (minus 6.7°C)
Through: 7 days at 20°F (minus 6.7°C)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
0°F to 200°F (minus 17.8°C to 93.3°C)

WATER VAPOR TRANSMISSION (ASTM E96-66)
1.0 perms (min.) at 1/8 in. dry film thickness
(2.0 metric perms at 3.2 mm)

HAZARD
Wet Flammability (ASTM D93-71)
No flash to boiling (210°F, 99°C)

Dry Flame Spread (ASTM E162-67)
135 on ¼ in. Asbestos Cement Board
(The flame spread may vary at different product thicknesses and/or when applied over surfaces other than asbestos cement board.)

FOSTER H. I. MASTIC®

FOSTER H. I. MASTIC® is a highly durable, protective weather coat for use over thermal insulation where an economical breathing mastic is required.

H. I. MASTIC® is a fibrated asphalt emulsion, made from a blend of prime asphalts, special colloidal clay filler, and carefully selected asbestos fibers, which will not shrink or crack (particularly at the critical right angle bends) during curing. It has exceptional weathering stability and develops with its final set a firm, durable surface with good resistance to acids, alkalies, abrasion, and other abuses typical of outdoor industrial conditions. It has no heat flow, remaining hard and stable under all normal operating temperatures.

The following grades are available:
90-07 H. I. Mastic® (Standard)
90-10 H. I. Mastic®, Low Temperature Grade

U.S.D.A. (M.I.D.) chemically acceptable.
90-07 and 90-10 comply with Rule 66, Los Angeles Air Pollution Control District.

LOW TEMPERATURE GRADE H. I. MASTIC 90-10 may be applied during freezing weather when temperature is above 20°F (minus 6.7°C).

LIMITATIONS (Standard Grade only)
Protect H. I. Mastic® from freezing in storage. Exposure to severe freezing conditions during application, or between application and full cure, may cause cracks in the cured film.

As with all asphalt emulsion products, application over insulations containing soluble salts may show efflorescence or white salt deposits on the surface if water is present in the insulation. Efflorescence may be removed by normal rainfall or washing after mastic is dry but may recur if water continues to be present in the insulation.

® Trademark of Amchem Products, Inc.
FSTM—Foster Standard Test Method
Form No. 3155-278
4/75-12-BP-243, 248, BPO-953, 954
LFN-1110, 1112

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FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

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The information and data contained herein are based on experiments and tests believed to be reliable. Every precaution is made to show accurately and the products described are sold without warranty, expressed or implied. Their use, application or performance. The purchaser and/or user shall make all tests to determine the suitability of such products for his purposes and uses. No statement contained herein shall be construed as a recommendation to infringe existing patents or as an endorsement of the products of other manufacturers. The customer is also cautioned that any recommended safety precautions or hazards associated therewith are made to customer's attention and conditions of application over which we exercise no control are important factors in the performance of products. Likewise we cannot assume the recommendations which we make concerning the use of our products are made as a condition of sale that we will replace material or refund the purchase price of any material proved by our laboratories to be defective within 90 days from date of shipment, but that we assume no liability for the purchase price of the material. No representative of ours is authorized to vary any of the foregoing provisions in any manner.

APPLICATION GUIDE for

FOSTER H. I. MASTIC®

MATERIAL PREPARATION

Do not thin. Apply only to clean, dry surface.

APPLICATION

(Refer to Guide Specification for recommended coverage.)

Prime dusty insulation such as magnesia, calcium silicate, with Foster STACKFAS® Concrete Curing Agent 81-06.

Apply 1 inch hexagonal wire mesh to insulation and then apply H. I. MASTIC® evenly by either trowel or spray. An alternate method is to apply a tack coat of H. I. MASTIC, embed a layer of Foster MAST-A-FAB® white membrane and then apply a finish coat of H. I. MASTIC over the membrane.

Trowel

Apply evenly with a minimum of overworking of material. May be applied with a rubber glove on small radius pipes and vessels.

Spray

H. I. MASTIC® may be airless spray applied at 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendation, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-586-2225	Fremont, CA 415-797-1430

CLEAN-UP

Clean equipment with clean fresh water before mastic dries. Use mineral spirits (flammable) or Dow Chemical Company "Chlorothene"® (non-flammable) after mastic dries.

Benjamin Foster Division of Amchem Products, List of Asbestos-Containing Adhesives, Mastics, Sealants and Coa...
ACL Doc 25106 · Page 63 of 113

FOSTER

COATINGS SEALANTS ADHESIVES FOR INDUSTRY

H. I. MASTIC®
LOW TEMPERATURE GRADE
90-10

A highly durable emulsion type breathing mastic weathercoat for protecting thermal insulation.

• **DIRECTIONS FOR USE** — Do not thin. Apply only to clean, dry surfaces. Use Foster Primer Black, 51-86, over dusty surfaces. Apply by trowel or spray (spray instructions available). 90-10 may be applied during freezing weather when temperature is above 20°F. Apply one inch hexagonal wire mesh to insulation and then apply H. I. Mastic® evenly by either trowel or spray. An alternate method is to apply a tack coat of H. I. Mastic,® embed a layer of Foster Mast-A-Fab® white membrane and then apply a finish coat over the membrane. Tack coat at 6 to 8 gallons per 100 sq. ft. finish coat at 6 to 8 gallons per 100 sq. ft.

• **CLEAN UP**—Clean equipment with fresh water before mastic dries. Use mineral spirits (flammable) or Dow Chemical Company's "Chlorothene"® (non flammable) after mastic dries.

CONTENTS 5 U.S. GALLONS (18.9 LITRES) Refer to Product Data Sheet for further information. **FOR INDUSTRIAL USE ONLY** by trained and qualified craftsmen

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6/75 5000

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asbestosclaims.law/library/25106/63

Foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
90-07
90-10

PROPERTIES

COLOR (FSTM 4)
Black

APPLICATION CONSISTENCY
Trowel or spray

WEIGHT PER U. S. GALLON (ASTM D1475-60)
9.4 pounds (1.13 kg/liter) (Average)

AVERAGE NON-VOLATILE (ASTM C461-64)
40% to 45% by volume

THICKNESS & COVERAGE (FSTM 71)
(Subject to nature of material being coated). Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces may require higher gallonage to attain required dry thickness.

Dry Thickness: 0.080 to 0.106 inch (2.0 to 2.7 mm)
Equivalent Wet Coverage: 0.19 in. to 0.250 in. (4.8 to 6.4 mm)
(12 to 16 gallons per 100 sq. ft.) on smooth non-porous surface.

Tack Coat:
Dry Thickness: 0.040 to 0.053 inch
Equivalent Wet Coverage: 0.094 in. to 0.125 in. (6 to 8 gallons per 100 sq. ft.) on smooth non-porous surface.

Finish Coat:
Dry Thickness: 0.040 to 0.053 inch
Equivalent Wet Coverage: 0.094 in. to 0.125 in. (6 to 8 gallons per 100 sq. ft.) on smooth non-porous surface.

DRYING TIME (ASTM C461-64)
90-07: Touch: 1 hour at 73°F (22.8°C)
Through: 8 hours at 73°F (22.8°C)
90-10: Touch: 8 hours at 60°F (15.6°C)
24 hours at 20°F (minus 6.7°C)
Through: 7 days at 20°F (minus 6.7°C)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
0°F to 200°F (minus 17.8°C to 93.3°C)

WATER VAPOR TRANSMISSION (ASTM E96-66)
3.0 perms (min.) at 1/8 in. dry film thickness
(2.0 metric perms at 3.2 mm)

HAZARD
Wet Flammability (ASTM D93-73)
No flash to boiling (210°F, 99°C)

Dry Flame Spread (ASTM E162-67)
135 on ¼ in. Asbestos Cement Board
(The flame spread may vary at different product thicknesses and or when applied over surfaces other than asbestos cement board.)

FOSTER H. I. MASTIC®

FOSTER H. I. MASTIC® is a highly durable, protective weather coat for use over thermal insulation where an economical breathing mastic is required.

H. I. MASTIC® is a fibrated asphalt emulsion, made from a blend of prime asphalts, special colloidal clay filler, and carefully selected asbestos fibers, which will not shrink or crack (particularly at the critical right angle bends) during curing. It has exceptional weathering stability and develops with its final set a firm, durable surface with good resistance to acids, alkalies, abrasion, and other abuses typical of outdoor industrial conditions. It has no heat flow, remaining hard and stable under all normal operating temperatures.

The following grades are available:
90-07 H. I. Mastic® (Standard)
90-10 H. I. Mastic®, Low Temperature Grade

U.S.D.A. (M.I.D.) chemically acceptable.
90-07 and 90-10 comply with Rule 66, Los Angeles Air Pollution Control District.

LOW TEMPERATURE GRADE H. I. MASTIC 90-10 may be applied during freezing weather when temperature is above 20°F (minus 6.7°C).

LIMITATIONS (Standard Grade only)
Protect H. I. Mastic® from freezing in storage. Exposure to severe freezing conditions during application, or between application and full cure, may cause cracks in the cured film.

As with all asphalt emulsion products, application over insulations containing soluble salts may show efflorescence or white salt deposits on the surface if water is present in the insulation. Efflorescence may be removed by normal rainfall or washing after mastic is dry but may recur if water continues to be present in the insulation.

® Trademark of Amchem Products, Inc.
FSTM—Foster Standard Test Method
Form No. 2188-27b
4/75-12-8F-243, 248, 8PO-953, 954
LPN-1110, 1112

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AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

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APPLICATION GUIDE for

FOSTER H. I. MASTIC®

MATERIAL PREPARATION

Do not thin. Apply only to clean, dry surface.

APPLICATION

(Refer to Guide Specification for recommended coverage.)

Prime dusty insulation such as magnesia, calcium silicate, with Foster STACKFAS® Concrete Curing Agent 81-06.

Apply 1 inch hexagonal wire mesh to insulation and then apply H. I. MASTIC® evenly by either trowel or spray. An alternate method is to apply a tack coat of H. I. MASTIC, embed a layer of Foster MAST-A-FAB® white membrane and then apply a finish coat of H. I. MASTIC over the membrane.

Trowel
Apply evenly with a minimum of overworking of material. May be applied with a rubber glove on small radius pipes and vessels.

Spray
H. I. MASTIC® may be airless spray applied at 50 gallons per hour. Please consult your Foster Representative for spray equipment recommendation, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-566-2225	Fremont, CA 415-797-1430

CLEAN-UP

Clean equipment with clean fresh water before mastic dries. Use mineral spirits (flammable) or Dow Chemical Company "Chlorothene"® (non-flammable) after mastic dries.

B.F.G.

COVALINK SEALANTS ADHESIVES FOR THERMAL INSULATION

FLASHING COMPOUND
95-10

A non-asphaltic sealant for use where temperature and chemical exposures will be severe.

CAUTION: COMBUSTIBLE MIXTURE NFPA Code of A 2912

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin.

- **DIRECTIONS FOR USE**—Apply by trowel, putty knife, hand or power caulking gun to butt end of insulation or other area to be flashed or sealed. When sealing insulation joints, apply flashing compound at 1/16 to 1/8 inch wet thickness and press mating surfaces together to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 wet film thickness to entire area for use. Use membrane as specified.

- **LIMITATIONS**—Permit to cure one week before placing in heated service. Do not apply below 40f. May bleed through certain solvent type finishes.

- **CLEAN-UP**—Use solvent such as Dow Chemical Company's "Chlorothene"® (non flammable) or mineral spirits (flammable) to clean tools and equipment.

CONTENTS 5 U.S. GALLONS **Refer to Product Data Sheet for additional information.** **FOR INDUSTRIAL USE ONLY**

LATEX NO.

8 69 500

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foster®

SEALANTS
ADHESIVES

PRODUCT DATA
95-10

FOSTER FLASHING COMPOUND

PROPERTIES

COLOR (FSTM 4)
Black

APPLICATION CONSISTENCY (ASTM D2507)
Trowel or caulking gun

GALLON WEIGHT (ASTM D1475)
10.0 pounds

AVERAGE NON-VOLATILE (ASTM C461)
62% by volume

COVERAGE (FSTM 71)
Trowel: 12 to 25 sq. ft. per gallon
(1/8 in. to 1/16 in. wet film thickness)

Caulking Gun:
- 85 lineal feet per 28 fluid oz. tube (¼ in. bead)
- 330 lineal feet per 28 fluid oz. tube (⅛ in. bead)
- 30 lineal feet per 10 fluid oz. tube (¼ in. bead)
- 130 lineal feet per 10 fluid oz. tube (⅛ in. bead)

DRYING TIME (ASTM C461)
Touch: 8 hours
Through: 20 to 30 days
(Depending on thickness of application and temperature)

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 10F to 350F

WATER VAPOR TRANSMISSION (ASTM E96)
0.03 perm at 1/16 in. dry film thickness

SAFETY
- Wet Flammability (ASTM D1310)
  Flash Point 100F
- Dry Combustibility (FSTM 44)
  Combustible
- Threshold Limit Value for Solvent Vapor
  (FSTM 73) T.L.V. 200 ppm

FSTM - Foster Standard Test Method

FOSTER FLASHING COMPOUND 95-10 is a non-asphaltic sealant for use where temperature and chemical exposures will be severe. When insulation surfaces are penetrated by metal projections, or when the insulation is terminated at valves flanges, etc., a sealant is required to prevent the entrance of moisture or chemical contaminants into the insulation. It must tolerate the temperature of the insulated surface and also be resistant to the local atmospheric conditions.

FLASHING COMPOUND 95-10 shows outstanding heat resistance when exposed to temperatures up to 350F. Laboratory tests have demonstrated excellent resistance in prolonged exposure to hot sulfuric, hydrochloric, and hydrofluoric acid solutions and vapors.

Available in caulking cartridges containing 28 fluid ounces or 10 fluid ounces.

LIMITATIONS

Permit to cure one week before placing in heated service. Do not apply below 40F or above 100F. May bleed through certain solvent type finishes.

Some plastic foams and some vinyl films may be attacked by the solvent in this product. User should establish by his own test that this will not occur.

Form No. 3155-68
12/72-6-2M
Destroy previous issues.

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

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APPLICATION GUIDE for
FOSTER FLASHING COMPOUND 95-10

CAUTION: COMBUSTIBLE MIXTURE — Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin.

Material Preparation

Do not thin. Apply only to clean, dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

Application

(Refer to Guide Specifications for recommended coverage)

Apply by trowel, putty knife, hand or power caulking gun to butt end of insulation or other area to be flashed or sealed. When sealing insulation joints apply FLASHING COMPOUND at 1/16 to 1/8 inch wet film thickness and press mating surfaces together to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge but maintain a minimum of 1/8 in. wet film thickness in entire area of use. Use membrane as specified.

Clean-up

Use solvent such as Dow Chemical Company "Chlorothene"® (nonflammable); or mineral spirits (flammable) to clean tools and equipment.

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TOSTO®

COATINGS
SEALANTS
ADHESIVES
FOR INDUSTRY

ELASTOLAR
SEALANT, ALUMINUM
95-44

A flexible, elastomeric, aluminum vapor barrier sealant designed for sealing joints in insulation, metal and masonry.

U.S.D.A. (M.I.D.) Chemically Acceptable.

CAUTION: COMBUSTIBLE MIXTURE.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin.

• DIRECTIONS FOR USE—Do not thin. Apply to clean, dry surfaces only. Apply by trowel, putty knife, hand or power caulking gun. Apply 95-44 at 1/16 in. to 1/8 in. wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. Strike off excess sealant on surface with a trowel. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 in. wet film thickness on entire area. 95-44 can be topcoated with most solvent thinned, flexible light colored coatings without danger of bleed through for applications on large installations. 95-44 may be extruded with air pressure extrusion equipment ranging from 9:1 ratio pumps to 55:1 ratio pumps, depending upon the desired rate of application. Since extrusion properties are not significantly affected by extremes in temperatures, 95-44 can readily be applied between minus 10f and 100f.
Consult Foster Technical Service for detailed power extrusion instructions.

• LIMITATIONS- Do not use with polystyrene foam insulations. The user should establish, by his own tests, that any solvent thinned, light colored coatings will not cause bleed through of 95-44.

• CLEAN UP— Use solvents such as Dow Chemical Company's "Chlorothene" (non flammable) or Mineral Spirits (flammable) for cleaning tools and equipment

CONTENTS 5 U. S. GALLONS Refer to Product Data Sheet for further information. FOR INDUSTRIAL USE ONLY

foster®

COATINGS
SEALANTS
ADHESIVES

PRODUCT DATA
95-44
95-49

FOSTER ELASTOLAR SEALANT

Foster ELASTOLAR SEALANT is a flexible, elastomeric vapor barr sealant designed for sealing jo: in insulation, metal, and mason: where maintenance of water-tigh and air-tight seal is required. 95-44 can be used as an adhesiv and joint sealant in low veloci duct airconditioning systems. 95-44 is also used for sealing laps of aluminum jacketing to p vent the entrance of moisture.

ELASTOLAR Sealant is a fast-dry sealant that can be topcoated w most solvent-thinned, flexible, light-colored coatings without danger of bleed-through.

ELASTOLAR Sealants 95-44 and 95 are U.S.D.A(M.I.D.) chemically acceptable.

May be applied at temperatures low as minus 10°F (minus 23°C).

PROPERTIES

COLOR
95-44 Aluminum
95-49 White

APPLICATION CONSISTENCY
Trowel, hand or power extrusion equipment

WEIGHT PER U.S. GALLON (ASTM D1475-60)
95-44: 9.4 pounds
95-49: 10.0 pounds

AVERAGE NON-VOLATILE (ASTM C461-64)
52 to 58% by volume

COVERAGE RANGE (FSTM 71)
Trowel: 12 to 25 sq.ft. per gallon (0.29 to 0.61 m^2/litre)
1/8 in. to 1/16 in.(3.2 to 1.6 mm)wet film thickness.

Caulking Gun:
85 lineal ft. per 28 fluid oz. tube (1/4 in. bead)
330 lineal ft. per 28 fluid oz. tube (1/8 in. bead)
30 lineal ft. per 11 fluid oz. tube (1/4 in. bead)
130 lineal ft. per 11 fluid oz. tub (1/8 in. bead)

DRYING TIME (ASTM C461-64)
Touch: 1/2 hour
Through: 72 hours

SERVICE TEMPERATURE LIMITS (FSTM 70)
(Temperature at coated surface)
Minus 100°F to 250°F(-73°C to 121°C)

WATER VAPOR TRANSMISSION(ASTM E96-66)
The water vapor transmission through 1 in. of impermeable insulation in 12 in. x 18 in. blocks with 1/8 in. joints of ELASTOLAR SEALANT is too small to measure.

HAZARD
Wet Flammability (ASTM D93-73)
Flash Point 80°F(26.5°C)
Combustibility (dry)
Flame spread and fuel contribution negligible when used as sealant in 1/8 in. wide joints on incombustible insulation.
Threshold Limit Value for solvent vapor (FSTM 73) T.L.V. 100 ppm

LIMITATIONS
Some plastic foams and some vin films may be attacked by the so vent in this product. User sho establish by his own test that this will not occur.

FSTM: Foster Standard Test Meth

Form No. 3155-7a
8/75-9-LFN-852/899/1024/1029/10
FN-874/901

FOR INDUSTRIAL USE ONLY BY TRAINED AND QUALIFIED CRAFTSMEN

FOSTER DIVISION
AMCHEM PRODUCTS, INC.
AMBLER, PA. 19002

The information and data contained herein are based on experiments and facts believed to be reliable, however we make no guarantee of their accuracy and the products described are sold without warranty expressed or implied. Conditions of use, application or performance are the purchaser and/or user shall make his own tests to determine the suitability of such products for his purposes and uses. No statement contained herein shall be construed as a recommendation to infringe existing patents, or as an assessment of the products of other manufacturers. The purchaser and user should assume that very knowledge about properties or aspects of surfaces, application techniques and methods and conditions of application which may be essential or important factors in the performance of products. Liability for damages arising from recommendations which we make concerning the use of our products is limited to the purchase price of the products. We make as a condition of sale that we will promptly replace material or refund the purchase price of any material proved to our satisfaction to be defective within the time from date of delivery that we warrant the material.

APPLICATION GUIDE FOR

FOSTER ELASTOLAR SEALANT

WARNING! FLAMMABLE MIXTURE - Keep away from heat, sparks, and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Consult Material Safety Data Sheet for further information.

MATERIAL PREPARATION

Do not thin. Apply to clean, dry surface only. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

Apply by trowel, putty knife, hand or power caulking gun. When sealing insulation joints, apply ELASTOLAR Sealant at 1/16 in. to 1/8 in.(1.6 to 3.2 mm) wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. Strike off excess sealant on surface with a trowel. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 in. (3.2 mm) wet film thickness in entire area. ELASTOLAR Sealant can be extruded with air pressure extrusion equipment ranging from 9:1 ratio pumps to 55:1 ratio pumps, depending upon the desired rate of application. Use membrane as specified. Consult your Foster Representative for detailed application instructions, or call:

FOSTER DIVISION, Amchem Products, Inc.

Ambler, PA 215-628-1401	Houston, TX 713-481-1200
Chicago, IL 312-586-2225	Fremont, CA 415-797-1430

CLEAN-UP

Use solvent such as Dow Chemical Company "Chlorothene"® (nonflammable; or mineral spirits (flammable) for cleaning tools and equipment.

FOSTER PRODUCTS



BENJAMIN FOSTER COMPANY

RESINOUS and BITUMINOUS COMPOUNDS

PHILADELPHIA PENNA.

FOSTER PRODUCTS

SCIENTIFICALLY DEVELOPED
LABORATORY CONTROLLED



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The scientific developments

of the last 5 years, climaxed by the liberation of atomic power, have demonstrated beyond all question the importance and necessity of chemical research and engineering in industry.

Back in 1938, an officer in the United States Navy stated that one of the greatest contributions this company or any paint manufacturer could ever make to the welfare of the United States, would be the development of a fire-retardant paint for War Ships.

At that time, a paint which would not support combustion under stringent Navy Fire Tests, was unheard of. It seems symbolical that the first really fire-retardant paint ever used extensively on a U. S. Navy War Ship was furnished by this Company for use on the Aircraft Carrier "INDEPENDENCE" under construction at New York Shipbuilding Corp. in December, 1942. This is just one of the many "impossibilities" which become "realities" through chemical research.

The Benjamin Foster Co. has always been a strong believer in chemical research for improvement of old products as well as the development of new ones. The laboratory is the "brain" of its business. It is constantly investigating and testing new raw materials, seeking desirable new physical properties which can be compounded into improved finished products. During the course of the war, hundreds of new resins, asphalts, gums, plasticizers, pigments, fillers and solvents were thoroughly investigated and out of these investigations, some 50 odd entirely new products were developed. A number of these have been adopted as standards by the U. S. Navy and Maritime Commission.

We are proud of our war record which was recognized by the award of the coveted Army-Navy "E" as evidence of the enviable position attained in a field studded with the best compounding chemists in the world.

Now this vast knowledge of new raw materials and compounding methods is being applied to the development of new and improved products for peacetime use. Adhesive Cements, Surface Coatings, Paints, Caulking and Sealing Compounds, Sound Deadening and Anti-Sweat Compounds, both in volatile solvent solutions and emulsion form, with physical properties never before dreamed possible in civilian products are available. Inquiries are solicited from industrial users for compounds to solve previously impossible problems. Products for use in line production are "Tailor Made" to the individual plant requirements.

Practically all Foster Consumer Goods Products have been improved through reformulation. Several new items have already been added and many others are now under development in the Foster Laboratory.

The inside pages of this catalogue provide descriptive data on all Foster Products, both Industrial and Consumer Goods. All of them have been developed in our own laboratory and are produced under strict control of this same laboratory.

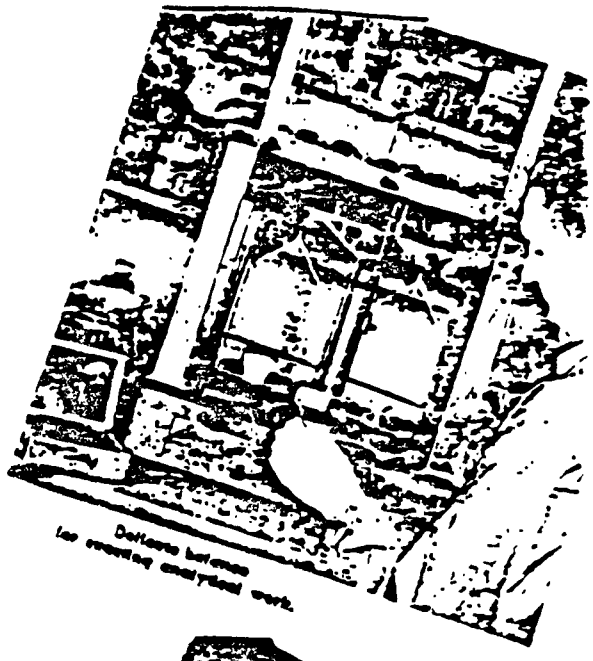
This policy is your assurance of highest quality in all Foster Products, regardless of what it may be.

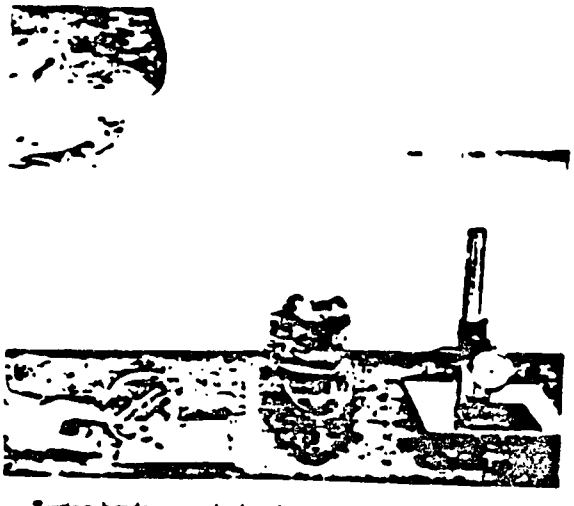
Bj. Foster, Jr.

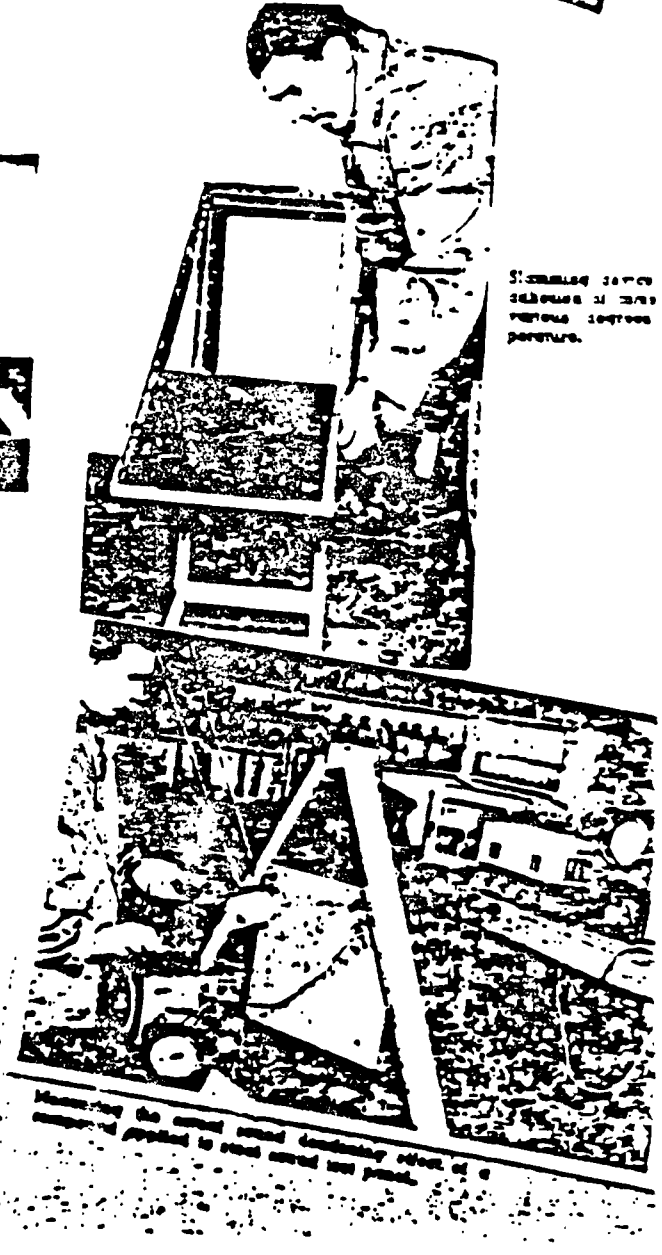
BENJAMIN FOSTER CO.

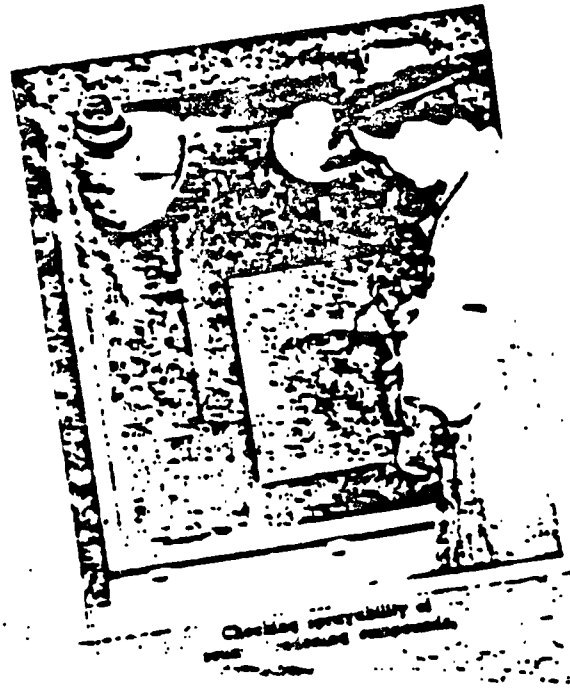
Benjamin Foster Division of Amchem Products, List of Asbestos-Containing Adhesives, Mastics, Sealants and Coa… Published by AsbestosClaims.Law
ACL Doc 25106 · Page 74 of 113 asbestosclaims.law/library/25106/74

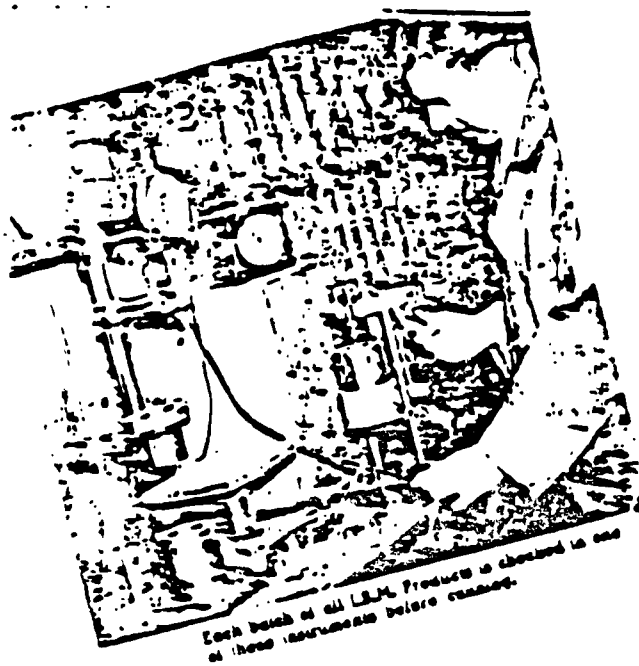


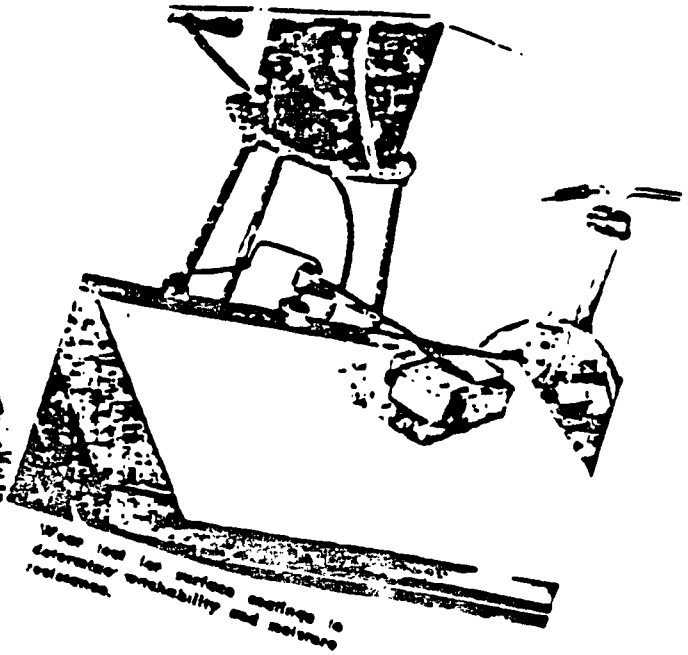


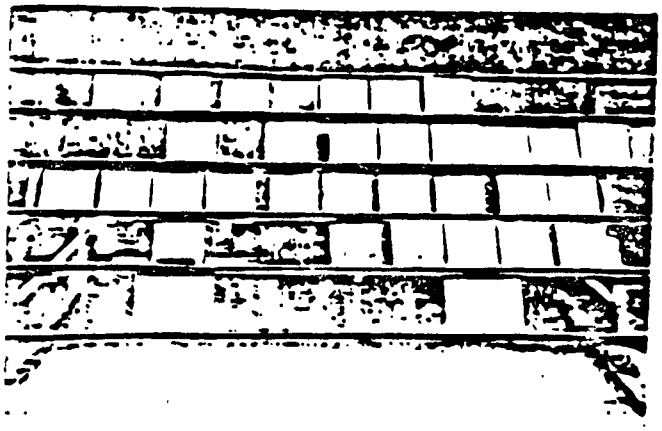






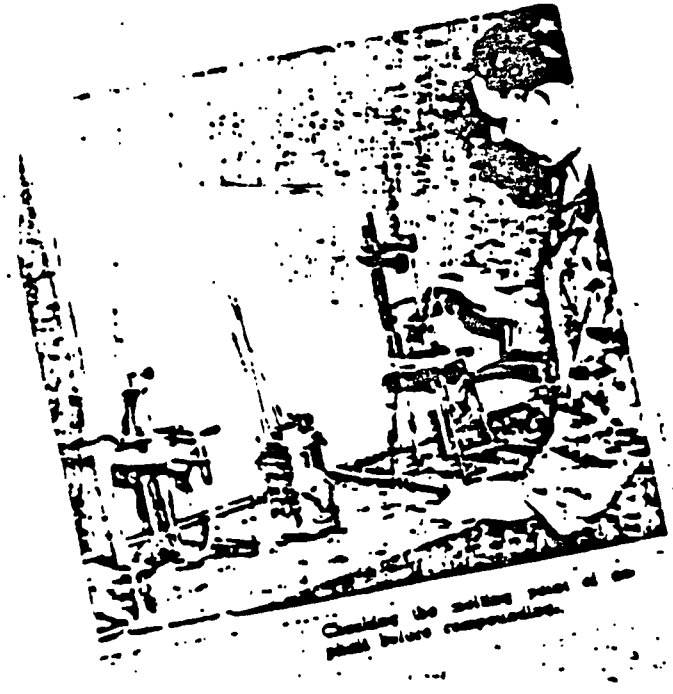


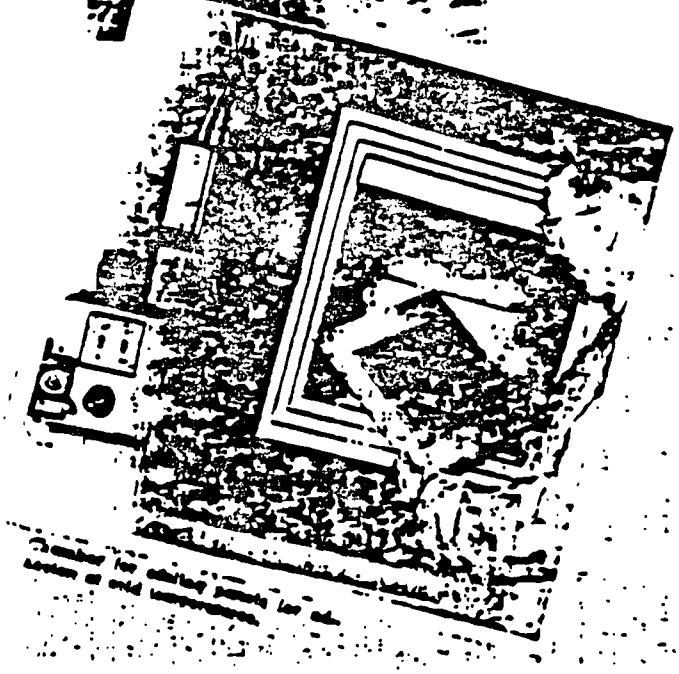


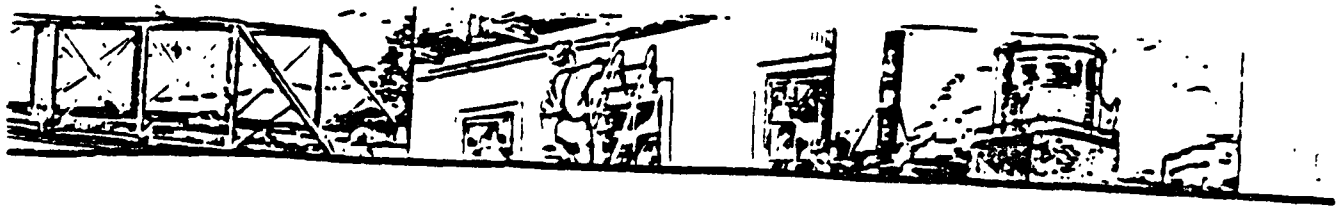


Weathering rack for exposing of various coatings to actual weather conditions.











A heavy bodied liquid made from an Asphalt base reinforced with long fibre Canadian asbestos. To be applied with a brush. Will stop leaks through small pin holes and cracks in all types of roofing surfaces; withstands cold and climatic changes. Comes ready for use in 1, 5, 20 and 35 gallon containers. It is based on the exclusive Foster Formula, the result of years of strenuous tests and extensive research, that makes Foster L.B.M. Fibre Roof Coating the best Roof Coating that money can purchase.

It renders a greater and longer service and gives complete satisfaction over a period of years.

Contains no Coal Tar and is guaranteed to meet all Government Specifications and Requirements as to durability, application and service.

FOSTER L.B.M. ASPHALT PLASTIC ROOF CEMENT

A heavy tenacious water proofing cement about the consistency of putty. Easily applied with a trowel; made from a base of asphalt with long fibre Canadian asbestos. Will form an absolute waterproof seal over all holes and cracks especially useful for stopping leaks around flashings, gutters, chimneys, skylights, and ventilators; for glazing in steel sashes; for patching all kinds of roof surfaces; for setting bolts or toilet bowls; for cementing down curled edges of composition shingles; for repairing extensible tops and many other similar purposes.



Will not chip or crack. Comes ready for use in 1, 5, 10, 25, 50, 200 and 350 pound containers. Withstands extreme climatic changes.

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BLACK CAT ROOFING PRODUCTS

ROOF COATING



ASPHALT WITH ASBESTOS: This product, composed of an asphalt base, reinforced with long fibre asbestos, is especially prepared to meet the requirements of practical application. It is guaranteed to form a tough, durable, waterproof covering over any type of roofing surface that will not crack in winter cold or run in summer heat. Pin holes and small cracks are thoroughly covered up with this coating. It is excellent for damp-proofing basement walls or any surface of wood or metal where a weather, water, and acid-proof protection is needed.

HOW TO APPLY: Large holes or cracks should be patched first with Black Cat Roof Cement. Use a three knot roofing brush to apply coating.

ROOF CEMENT

ASPHALT WITH ASBESTOS: In addition to its master use of stopping up leaks and sealing cracks in roofing surfaces, skylights, gutters, chimneys, etc., this cement is ideal for caulking windows and boat seams, setting boilers or toilet bowls, glazing in metal sash, sealing leaks in metal tanks, and a hundred and one similar uses.

Special long fibre Asbestos is thoroughly impregnated with the highest Asphalt that sets with a tough, waterproof and acid-proof durable coating, but still retains a semi-plastic condition beneath to meet the extremes of Summer heat and Winter cold without running, blistering, cracking or powdering. In applying, surfaces should be cleaned thoroughly of all dirt and cement applied with a trowel or putty knife.

FOSTER I.B.M. SEALFAS ADHESIVE

Foster I.B.M. Sealfas Adhesive is a specially prepared bituminous mastic for cementing wood flooring (either in block or herringbone pattern) direct to the concrete. It is a plastic material that requires "no thinning or heating" and is troweled on the concrete with a sawtooth edge plasterer's trowel.

Permanent set-up in 72 hours—although light traffic will do no harm immediately after floor is down.



FOSTER I.B.M. RED FIBRE ROOF COATING

FOSTER I.B.M. GREEN FIBRE ROOF COATING



These new colored fibre roof coatings are formulated with a special selected Resin Base containing constituents which produce a BRIGHT COLORED product that has the durability and appearance the public has been demanding of modern maintenance coatings on all exterior roof surfaces Asphalt Slate Surfaced Shingles. Asbestos Shingles. Metal Roofs. etc.

On asbestos shingle roofs and other surfaces that have a fungus growth. it is advisable to apply a prime coat of FOSTER NU AWN ANTI FUNGUS Clear Coating before using either product.

On surfaces previously painted with a black asphalt or tar coating it is advisable to give the surface a prime coat of I.B.M. Asphalt Aluminum Paint to prevent bleeding.

WILL NOT CRACK OR PEEL	HAS UNUSUAL HIDING POWER
DO NOT THIN	READY FOR USE
DURABLE GLOSSY FINISH	NON STAINING

CLEAN SURFACE OF DIRT AND SCALE BEFORE APPLYING.

FOSTER I.B.M. RED PLASTIC ROOF CEMENT

FOSTER I.B.M. GREEN PLASTIC ROOF CEMENT

These new colored plastic roof cements with a special selected Resin Base, are compounded in the standard consistency found in quality roof cements, which is just slightly thinner than gun grade caulking compounds, however, they may be used satisfactorily in caulking guns, except on vertical work. SUGGESTED USES: ALL EXTERIOR ROOF SURFACES, chimneys, skylights, copings, flashings, greenhouses, and waterproofing. Ideal for metal seams on roofs and siding.

COLORS: BRIGHT RED and BRIGHT GREEN. NON-STAINING.

FOSTER I.B.M. ASBESTOS FURNACE CEMENT

FOSTER I.B.M. ASBESTOS FURNACE CEMENT has been scientifically created by laboratory and practical tests to withstand heat. It is designed to successfully seal joints and seams on stoves, hot air or hot water furnaces, gas furnaces, or brick lined ovens, etc. COLOR: BLACK.



FOSTER NO-FYR CEMENT

WATERPROOF FIRE RETARDANT
QUICK SETTING STONE GRAY
NON-STAINING

FOR MAINTENANCE, new CONSTRUCTION and PRODUCTION work where a WATERPROOF and FIRE RETARDANT cement is required for EXTERIOR or INTERIOR use. This general purpose cement is ideal for setting new bath tubs, showers, kitchen sinks, baseboards, boilers, furnaces, etc.; also highly satisfactory for repairing leaks around old installations of this type. When used as a pipe compound, ends pipe-joint problems permanently.

Will stand drastic temperature changes over a range of 30 degrees below to 400 degrees F. above zero. A non-conductor of electricity; will not crack with age. Made in trowelling consistency. Ready-to-use, no messy mixtures, no careful weighting, no critical temperatures. It can be brushed, trowled, or roller coated.

STRONG
WATER-PROOF
OIL-RESISTANT

SETS QUICKLY
FIRE RETARDANT
NON-STAINING



FOSTER CAULKING COMPOUNDS

The Modern Plastic Caulking

NON STAINING GUN GRADE

Foster elastic caulking compounds will not crumble, stain or dry out. These special plastic caulking materials are compounded for sealing cracks and openings around door and window frames, chimneys, roof and wall sides, flashings, copings, foundations, as well as marine work.

Foster Caulking Compounds dry to a leather-like consistency, firm but plastic beneath the surface, with a tough, flexible, water-proof film; allowing for contraction and expansion and is unaffected by heat or cold. Does not stain masonry surfaces to which it is applied, and, if necessary, may be painted over at once, without staining through the paint.

SEALASTIC CAULKING COMPOUNDS

GRAY, LIMESTONE, WHITE, BLACK, ALUMINUM, DARK RED

If Federal Specification Caulking Compound is required, we suggest you order just the amount for each job, since they are special formulations, and will not keep as well as SEALASTIC CAULKING COMPOUND, which has a shrinkage of only 10%, while the Federal Specification allows for 20% shrinkage.

SEALASTIC, ALUMINUM is compounded for sealing exposed seams in all types of metal construction, roofs, sidings, etc. Caulking NAIL HEADS with this product is the most successful method of stopping LEAKS on metal roofs and sidings caused by loosened NAIL HEADS, and for patching holes, etc. Screen wire should be used in repairing holes and seams on badly worn roofs.

SEALASTIC, DARK RED, caulking is a special formula, RESISTANT TO OIL AND GASOLINE. (Allow 30 days' time for setting for gasoline resistance.) Ideal for Marine work, boat decks, etc.

SEALASTIC, ALUMINUM and DARK RED caulking compounds are equally satisfactory on all other types of construction work.

STORM KING CAULKING COMPOUNDS

GRAY, WHITE, LIMESTONE

For estimating purposes one gallon of either SEALASTIC or STORM KING Caulking Compounds will caulk about 150 lineal feet of an opening ¼" wide inserting the compound ½" deep.

Our Laboratory Staff will be glad to answer any inquiries regarding the adaptability of either SEALASTIC or STORM KING products for specific uses.



FOSTER BLACK CAULKING COMPOUND #80-2

GUN GRADE

Ideal for brick siding and insulation board.



FOSTER I.B.M. MARINE PRODUCTS

FOSTER I.B.M. FIRE-RETARDANT VAPOR-SEAL 30-30 has also been approved by the Navy as a Vapor-Seal for cork pipe insulation for refrigeration lines and is widely used because of its lower cost.

FOSTER I.B.M. FIRE-RETARDANT ADHESIVE 81-33 is used for cementing hull insulation. It develops the same tensile strength within 24 hours as is required by Navy Specifications 52-C-23 after 72 hours. This permits the erection of board with a minimum of shoring and under certain conditions—without shoring. As its name indicates, the material is fire retardant. It will hold its bond at temperatures up to 1400° F. and will continue to hold even when the glass board separates due to buckling of steel under extreme heat. THIS CONFORMS WITH NAVY SPECIFICATION 52-C-23, TYPE A, April 16, 1945.



FOSTER I.B.M. FIBROUS ADHESIVE 81-27 is a quick setting cement for use in securing woven asbestos cloth on pipe lagging to insulate compounds employed on pipes or other surfaces. This product conforms with Navy Specification 52-C-22. (8-1-44)

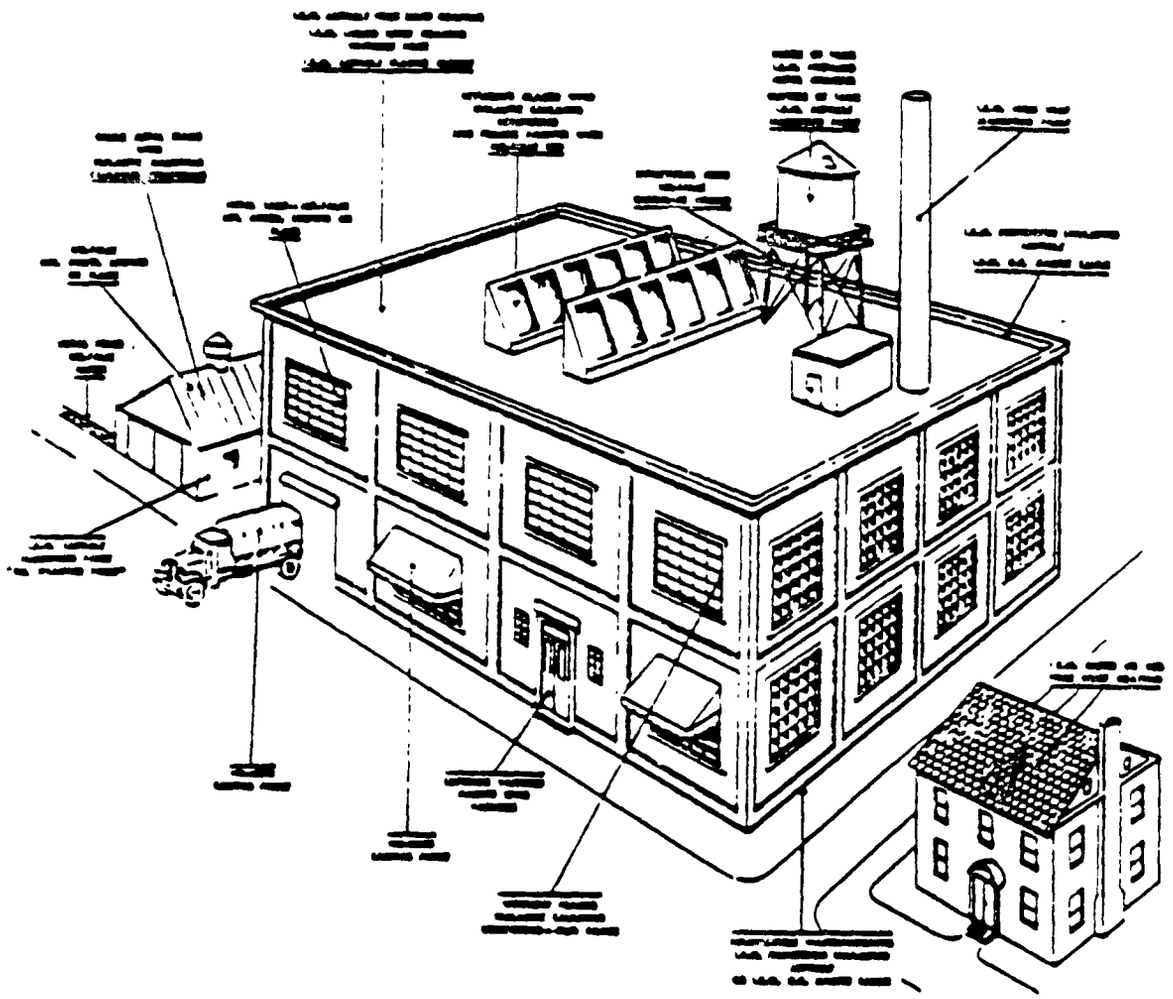
FOSTER I.B.M. FIREPROOF ADHESIVE 81-36 is similar to 81-27 except that it is heavier bodied to make it adaptable for use in cementing asbestos cellular board to metal surfaces.

FOSTER I.B.M. FIRE-RETARDANT FITTING FILLER 95-15 is especially designed for filling the joints of cork insulation. Because of its non-shrinking properties this product produces a permanent seal for any joint.

FOSTER I.B.M. FIRE-RETARDANT JOINT FILLER 95-12 is used to fill joints between Fiberglas® insulation and steel beams. Because of its non-shrinking properties, this product produces a permanent seal for any joint.

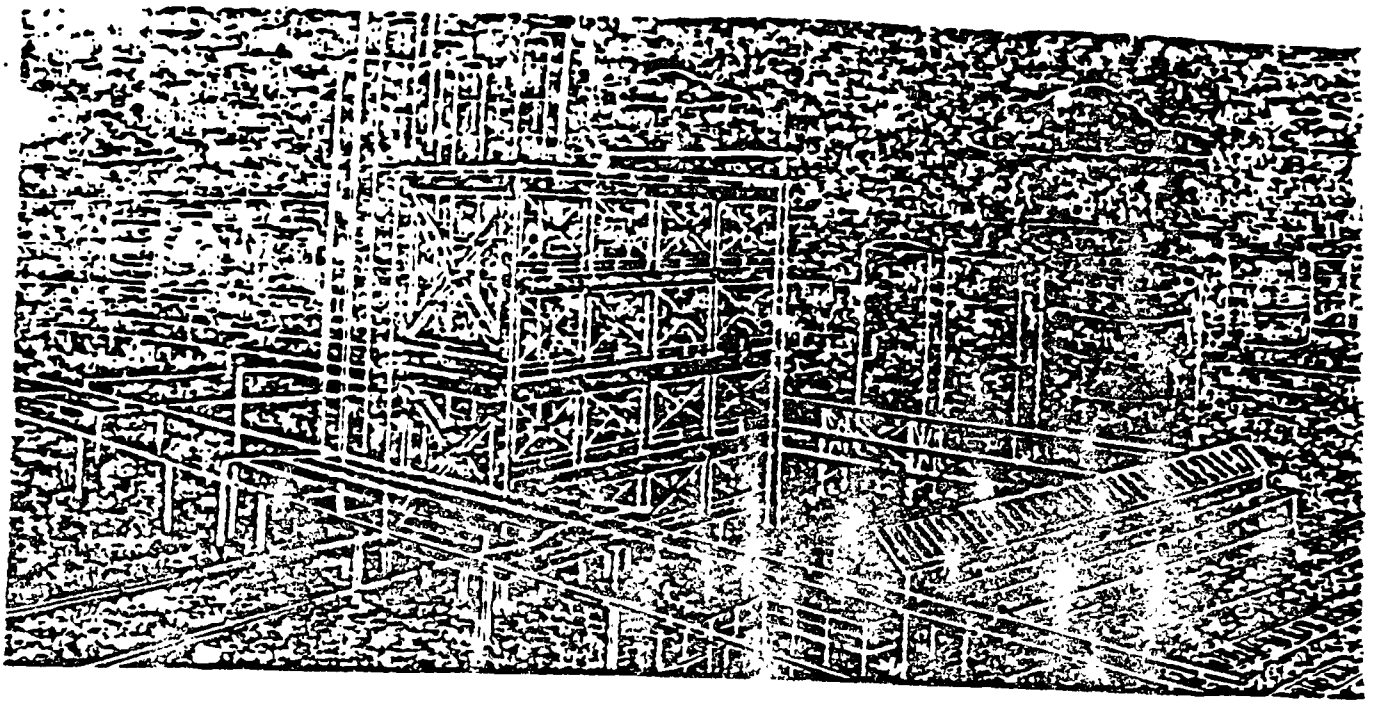
FOSTER I.B.M. FIRE-RETARDANT LINOLEUM CEMENT 81-52 is a water-proof quick setting cement for use with Fire-Retardant Linoleum. It complies with Navy Specification 52-C-32. (1-15-45)

FOSTER PRODUCTS
for INDUSTRIAL and HOME USE



Look at this building! It may well be yours! It is not impervious to wear . . . Nature's forces begin to hammer at it from the day it is built . . . It needs careful and constant attention to keep it intact as an investment. It needs protection against the elements, against ordinary wear and tear. Wood rots, metal rusts, bricks crumble, cement cracks. Your building can best be protected by using all of the following high-quality Foster Maintenance Products: Paints, Roof Coatings and Cements, Caulking Compounds, Anti-Corrosive Metal Primers, Damp-Proofing Products, etc. Many of your maintenance problems will be solved by the timely selection of these Foster Products.

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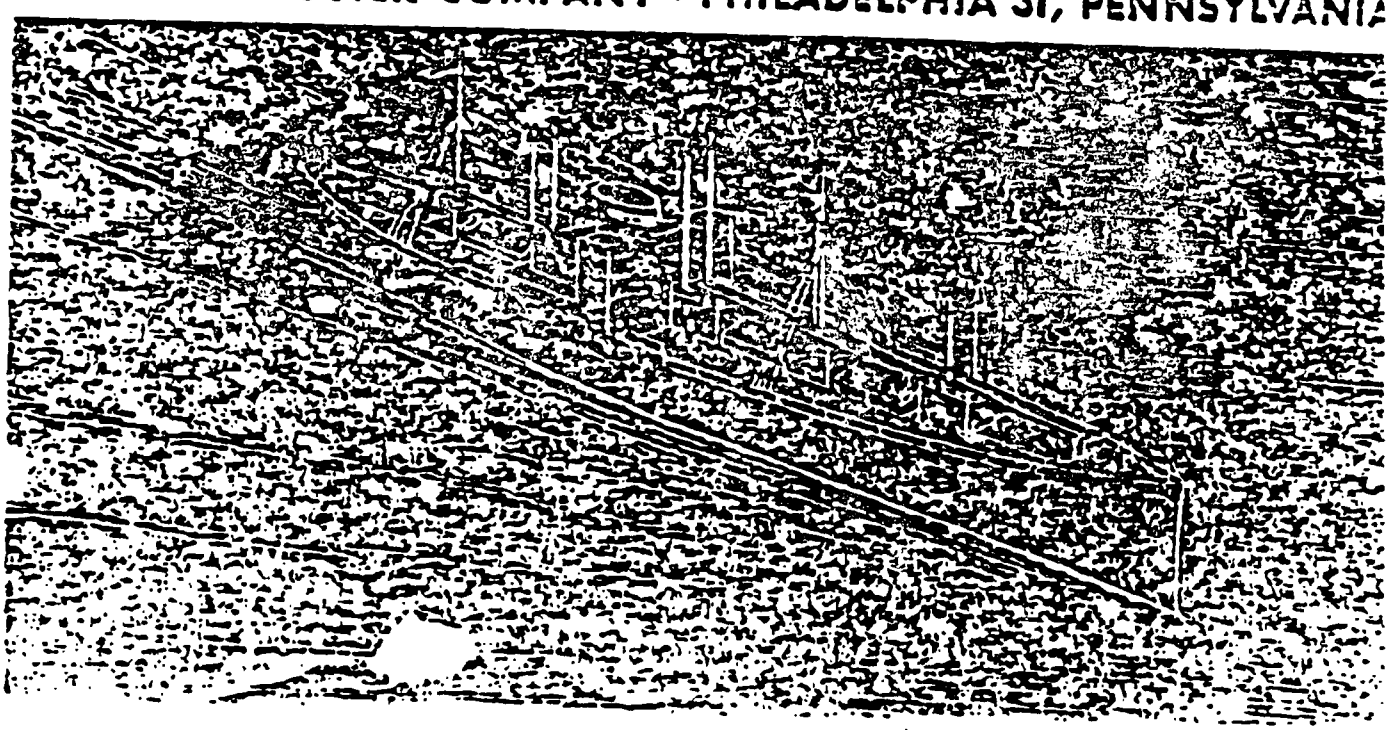
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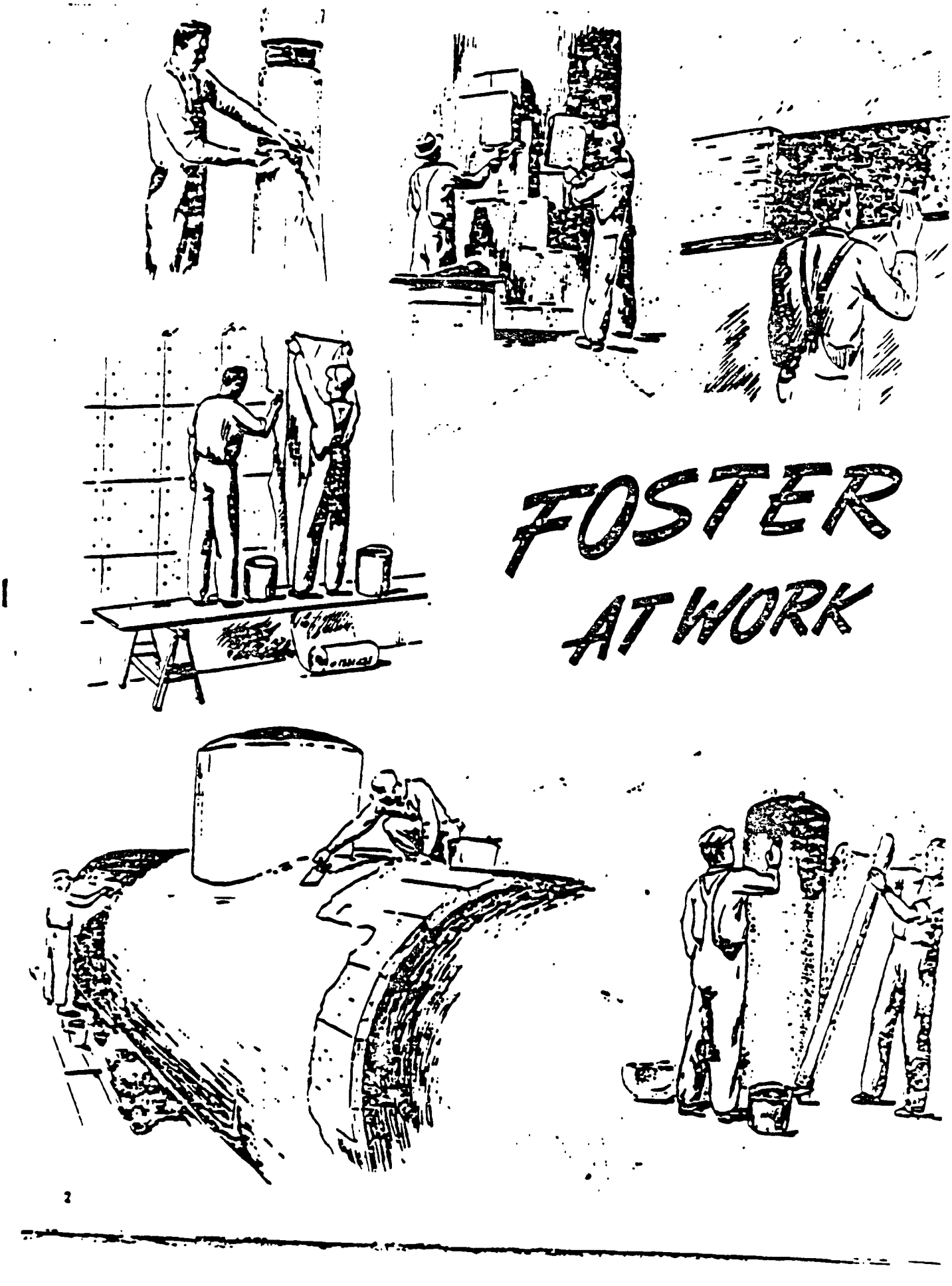
FOSTER

ADHESIVES, SEALERS AND SURFACE COATINGS FOR USE WITH INSULATION IN THE MARINE AND INDUSTRIAL FIELDS

THERE ARE OVER 125 FOSTER PRODUCTS FOR INDUSTRY — EVERY ONE REFLECTS THE INITIATIVE, IMAGINATION, TALENT, AND PRODUCTION ABILITY OF THE BENJAMIN FOSTER ORGANIZATION.

BENJAMIN FOSTER COMPANY • PHILADELPHIA 31, PENNSYLVANIA





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FOSTER FACTS

FACTS:

1. The cost of the auxiliary materials used on the average quality insulating job is seldom 5% of the total cost of the other material and labor.

HOWEVER:

Failure of these auxiliaries means failure of the insulation, reflection on the contractor and the insulation manufacturer, and high maintenance cost to the owner.

If these auxiliary adhesive or sealer materials are difficult to apply, or require follow-up maintenance, labor costs go sky-high and profits on the entire job may be jeopardized.

2. Insulating materials are now fully-engineered and highly developed products for a multitude of specific applications. Where formerly the old accepted materials indicated a limited choice and installation procedure, there is now an ever-increasing number of new, improved insulation materials to meet a constantly growing list of uses and installation techniques.

THEREFORE:

It is now more important than ever that the adhesives and sealers used with these highly developed insulation materials, be as advanced in technical perfection as the insulation with which they are used.

FOSTER Insulation Adhesives and Sealers already have gained a national reputation and recommendation by leading manufacturers of insulating materials, as the result of pioneer work done with and for the industry. As new problems have arisen, as new insulating materials have been developed, as new and more rigorous requirements have become apparent—the Benjamin Foster Company's laboratory and field technical staff has worked side by side with manufacturers and contractors alike to develop and produce the exact adhesives and sealers for their needs, today and in the future.

THE NET RESULT OF OUR EFFORTS:

- Foster products are recognized as top standard by users and manufacturers of insulating materials alike.
- The installed cost of insulation has been reduced materially.
- The service life of the prime investment which has been insulated, is greatly increased.
- Maintenance has been minimized and simplified.
- A complete line of unvarying and dependable insulation adhesives and sealers is available from Benjamin Foster Company—at costs commensurate with the quality of the finished insulated job.

The Only True Cost Is

Maximum Efficiency

at

Minimum Cost

Foster Adhesives and Sealers Offer Quality

and Speed of Application With

Full Consideration of Low

Maintenance Costs.

Get the Most Out of

Fine Insulating Materials

The Benjamin Foster Company manufactures a wide variety of sealers and adhesives with resinous, asphalt and other types of bases. Our research laboratory is prepared to work with companies having special applications and unusual requirements.

All products mentioned in this manual have been widely used by leading industrial and insulation contractors, and are being specified by prominent architects and engineers. Names of these firms will be gladly furnished for reference purposes on request.

BENJAMIN FOSTER COMPANY
PHILADELPHIA 31, PENNSYLVANIA

Benjamin Foster Division of Amchem Products, List of Asbestos-Containing Adhesives, Mastics, Sealants and Coa… Published by AsbestosClaims.Law
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REFERENCE CHART

The references made and limits indicated in the tables below are conservative. In many instances these Foster products have proven satisfactory over much wider ranges. When conditions arise beyond the ranges mentioned in the tables or those in the following pages, specific recommendations will be given gladly upon request.

CODE	PRODUCT	USE	APPLICATION	THIN
81-33	ADHESIVE	For cementing fibrous glass or cockboard.	Serrated Trowel	
30-45	FOAM SEAL	For use as a bedding and for sealing joints of cellular glass (Foamglas®) block insulation to prevent entrance of moisture and to act as an expansion joint between the cellular glass blocks.	Trowel	
90- 7	O. C. MASTIC	As a thick protective coat over insulated hot tanks and equipment. Exterior or interior exposure.	Trowel	
81-36	C. C. ADHESIVE	For cementing cellular asbestos duct insulation to metal or asbestos-cement products.	Brush or Trowel	
81-27	FIBROUS ADHESIVE	For cementing asbestos lagging cloth, and for lamination of magnesia or asbestos block insulation.	Brush	
95-15	FITTING FILLER	For sealing cork insulation joints and for filling inside boxed-in fittings. Used instead of granulated cork for maximum protection.	Trowel	

4

* T. M. Reg. Pittsburgh-Corning Corp.

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asbestosclaims.law/library/25106/91

TEMPERATURE LIMIT	BONDING TIME (MIN.)	DRYING TIME (HRS.)	COLOR	PAGE
—50°F. to —300°F.	0-10	24-36	Grey	
—100°F. to —300°F.	See Description	24	Aluminum	
250°F.	See Description	4-8	Black	
800°F.	0-5	4-6	White	
800°F.	0-5	4-6	Grey	
180°F.	See Description	Non-drying	Brown	

FOSTER I. B. M.
FIRE RETARDANT ADHESIVES
For Use in Installing Duct Insulation Using Asbestos Cellular Board

One coat of Foster I. B. M. Fireproof Adhesive Cement 81-36 is applied by brush to the metal surface, Fig. 3 (A), and into this is embedded the asbestos cellular board, Fig. 3 (B). The surface of the cellular board is then given a brush coat of the same material, into which a sheet of asbestos manne tape is embedded, Fig. 3 (C).

CHARACTERISTICS OF
FOSTER I. B. M. FIREPROOF ADHESIVE CEMENT 81-36

- This is a heavy bodied, quick setting Adhesive, which is unconditionally fireproof in both the wet and dry state.
- It is easily applied by brush and produces a film which is [illegible] on drying.

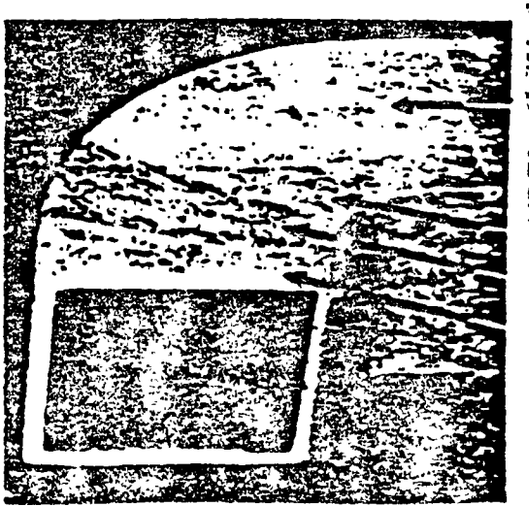


FIG. 3

[illegible] I. B. M. Marine Products have been developed in our own research laboratory with a view to the observation of [illegible] and after thorough study, both in the laboratory and in the field of marine requirements, as to fire [illegible] Factory and your nearest application.

BENJAMIN FOSTER COMPANY

1411 WALNUT STREET — Factory: 31st STREET AND MAGAZINE LA[illegible]

PHILADELPHIA, PA.

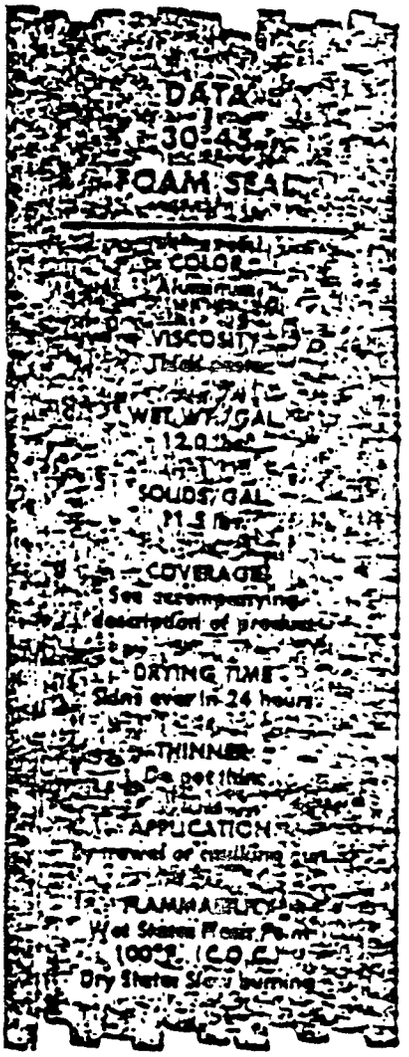
OSTER

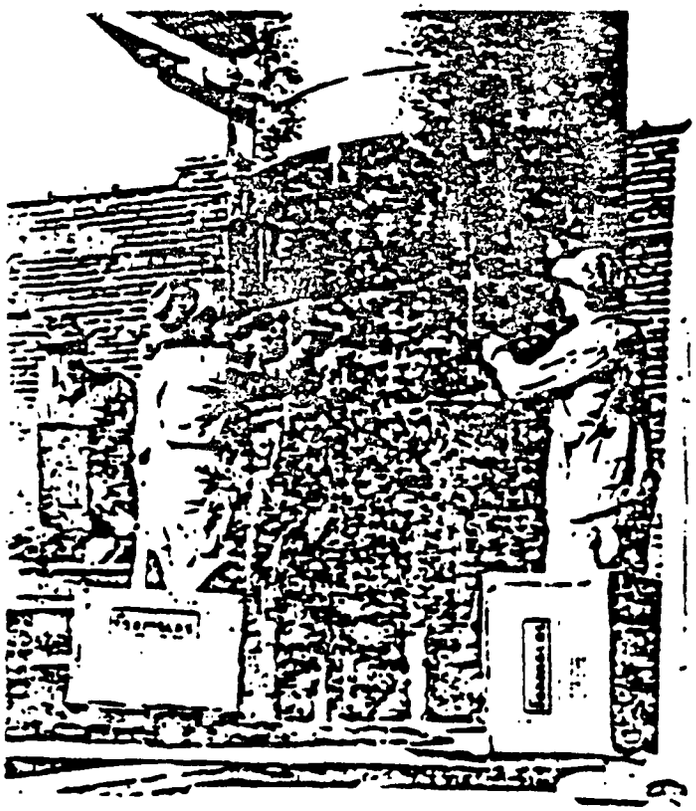
30-45

FOAM SEAL

This product is formulated to act as a sealer and bedding compound for Foamglas * block insulation. Foam Seal 30-45 is of a thick paste consistency. Application is by trowel or caulking gun. The material remains soft and tough underneath the insulation and will withstand repeated cycles of high and low temperatures without shrinking or cracking. It seals the joints thoroughly against the entrance of moisture. Foam Seal 30-45 will perform efficiently as a sealing and bedding compound when used with Foamglas * in dual temperature service from —100° to —300° F. It acts as an efficient expansion joint; taking up the movement in the insulation caused by changes in temperature. The material is aluminum in color. It must be used in the consistency furnished and not thinned, and will skin over the surface in 24 hours.

* Reg. Pittsburgh-Corning Corp.





10

FOAM SEAL COVERAGE
(for estimating purposes)

100 sq. ft. Foamglas* blocks
2" x 12" x 18" requires:

For bedding compound and joint sealer . . . 9 gals. Foam Seal

For bedding compound only . . . 6 ¾ gals. Foam Seal

For joint sealer only . . . 2 ¼ gals. Foam Seal

FOSTER

90-7

O-C MASTIC

DATA
90-7
O-C MASTIC

COLOR
Black

VISCOSITY
Soft paste

WET WT./GAL.
9.6 lbs.

SOLIDS/GAL.
5.8 lbs.

COVERAGE
10-15 sq. ft. per gallon
(⅛ inch thick)

DRYING TIME
Set-to-touch -
15 to 30 minutes
Set-through—4 to 8 hours

THINNER
Do not thin

APPLICATION
Trowel

FLAMMABILITY
Wet State: Non-inflammable
Dry State:
Less hazardous than paraffin

LIMITATIONS
Keep from freezing. Do not apply over wet surfaces, but mild dampness will not harm application. Maximum thickness per coat, ⅛ inch.

This material is used as a durable protective mastic finish over thermal insulation on tanks, pipes, etc. It is especially recommended for hot tanks and equipment insulated with corkboard or magnesia. It is also used for caulking joints and patching damaged areas of insulation.

It can, to some extent, be classified in the field of Fibrated Asphalt Emulsions. It differs considerably, however, from the general run of such materials for the following reasons:

The Asphalt Emulsion from which the finished product is made is formulated under the exclusive Foster process covered by patent No. 2129416.

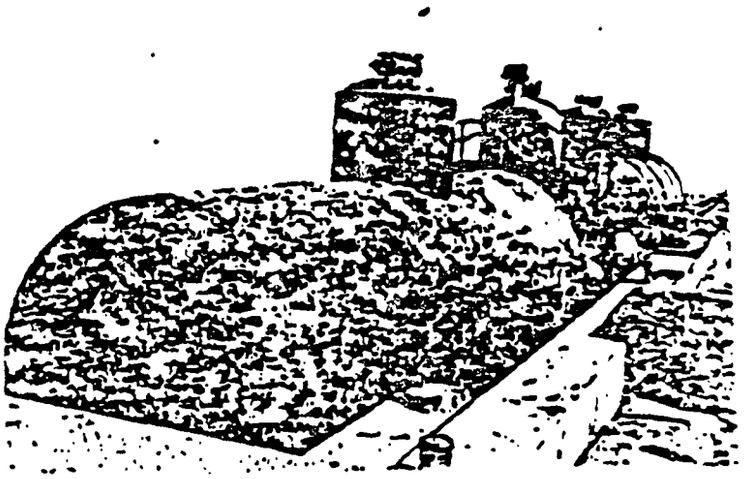
It is not made from one standard type of asphalt, but is a blend of several asphalts.

The clay filler is a special colloidal clay.

The asbestos filler is also of a carefully selected grade and size. These features produce the following properties not found in standard types of Fibrated Asphalt Emulsions.

1. An absolute minimum of cracking and shrinkage, particularly at right angle bends.
2. With its final set the O-C Mastic develops a hard and durable surface that has good resistance to minor abrasion.
3. O-C Mastic has very good weathering properties. Breathing properties make it especially suitable for use over insulation on warm tanks, vats or pipe lines, as it provides an excellent water-resistant coating with sufficient breathing properties to permit the escape of moisture driven to the surface by the high interior temperature.
4. O-C Mastic works much easier under trowel application than most other types of so-called fibrated emulsions.
5. It is acid- and alkali-resistant, has no heat flow and will withstand maximum operating temperature of 250° F.

The coverage of O-C Mastic is approximately 10-15 sq. ft. per gallon when applied ⅛" in thickness. O-C Mastic is applicable on all insulation work other than refrigeration, both for interior and exterior work. The material should be used in the consistency furnished and not thinned.

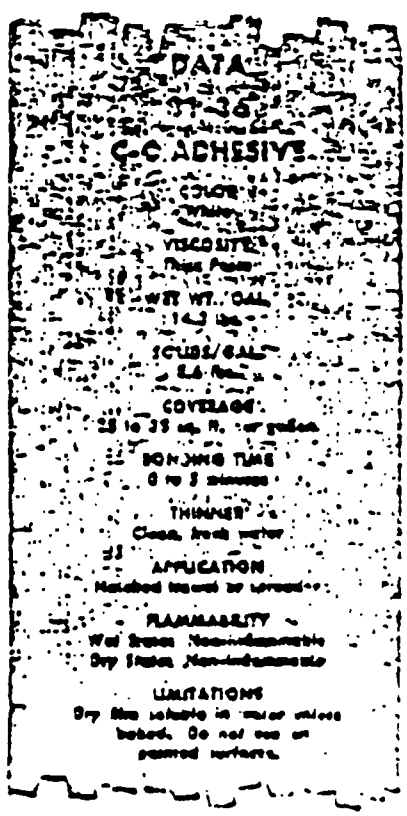


Benjamin Foster Division of Amchem Products, List of Asbestos-Containing Adhesives, Mastics, Sealants and Coa… Published by AsbestosClaims.Law
ACL Doc 25106 · Page 95 of 113 asbestosclaims.law/library/25106/95

31-36

C. C. ADHESIVE

Where the best is wanted in a sodium silicate adhesive this is it. This product is fire-proof, fast setting, will withstand temperature up to 300° F. It has the maximum in adhesive strength for this type of adhesive. It can be used with such materials as hard asbestos boards, known to the trade as Transite°; is very good in adhering light-weight insulation products such as cellular asbestos or Asbestocel °; also for magnesia and Amesite. It is of trowel consistency and white in color. This compound is high in silica with relation to soda, resulting in maximum adhesion and optimum working qualities. It is fireproof and fast-setting to a hard film. Because of its sodium silicate base, this product is not recommended for use with glass or mineral wool insulation materials.



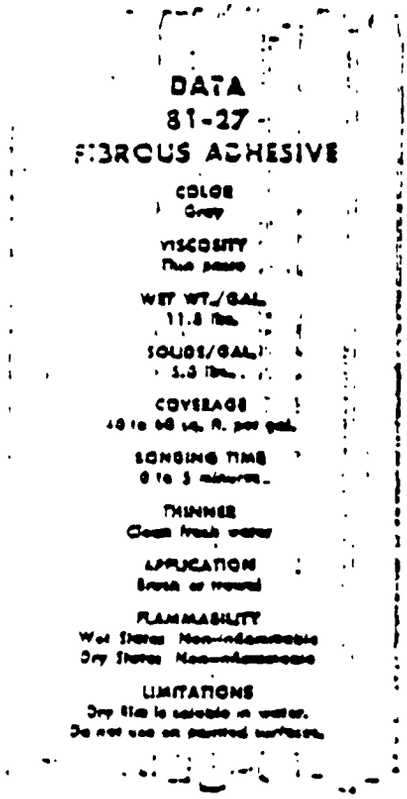
Benjamin Foster Division of Amchem Products, List of Asbestos-Containing Adhesives, Mastics, Sealants and Coa... Published by AsbestosClaims.Law
ACL Doc 25106 · Page 96 of 113 asbestosclaims.law/library/25106/96

FOSTER

81-27

FIBROUS ADHESIV

A low-price adhesive for eliminating thermal insulation such as magnesia and Amosite, and for adhering asbestos cloth over insulation units. This product is one that should be used with care. Since the dry film is soluble in water, it should not be used where moisture will be encountered. Because of its sodium silicate base this product is not recommended for use with glass or mineral wool insulation materials. It is quick setting and fire-proof and will withstand temperatures up to 800° F. It may be applied by brush or trowel.



DATA
81-27
FIBROUS ADHESIVE

COLOR
Gray

VISCOSITY
Thin paste

WET WT./GAL.
11.8 lbs.

SOLIDS/GAL.
5.3 lbs.

COVERAGE
40 to 60 sq. ft. per gal.

SETTING TIME
0 to 5 minutes

THINNER
Clean fresh water

APPLICATION
Brush or trowel

FLAMMABILITY
Wet State Non-combustible
Dry State Non-combustible

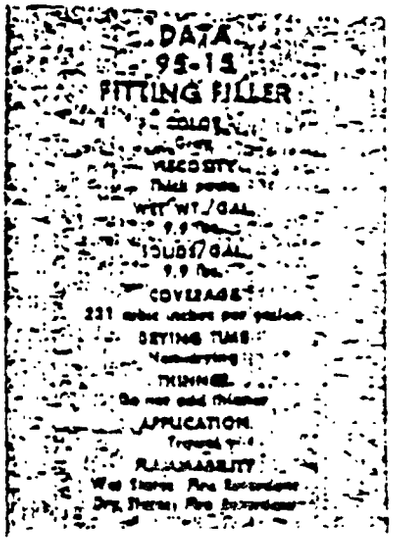
LIMITATIONS
Dry film is soluble in water.
Do not use on painted surfaces.

FOSTER

95-13

FITTING FILLER

This is a non-drying, non-shrinking composition used as a filler to work in boxed-in pipe fittings for refrigeration work and other places where mechanical assemblies will not permit the use of rigid insulation. It is also used for the filling in of joints in corkboard and other types of rigid insulation. It is a soft permanently plastic compound containing granulated cork. It will not support combustion and there is no fire hazard during application. Its maximum temperature limit is 180° F.



BENJAMIN FOSTER COMPANY

RESINOUS and BITUMINOUS MATERIAL COMPOUNDERS

4635 WEST GIRARD AVE., PHILADELPHIA 31, PA.

OTHER FOSTER PRODUCTS

RESTALIC PROTECTIVE COATINGS AND PRIMERS for Metal, Wood and Masonry.

FOSTER VINYL FLOOR ENAMEL for concrete, wood and metal.

NU-AWN FIRE-RETARDANT CANVAS PAINTS.

ALUMINUM PAINTS.

ROOF PAINTS, COATINGS & CEMENTS.

FURNACE CEMENT.

CEMENTS for all types of floor tile.

SOUND DEADENERS for the Automotive and other Industries.

An Exhibit

OF

FOSTER L. B. M.

FIRE RETARDANT MARINE PRODUCTS

FOR USE WITH *FIBERGLAS INSULATION

Pacific Coast Club

LONG BEACH

CALIFORNIA

•

FRIDAY, JUNE 4, 1943

3 TO 7 P. M.

•

BENJAMIN FOSTER CO.

PHILADELPHIA

MANUFACTURER

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DISTRIBUTOR

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EXHIBIT "A"

FOSTER L. B. M. ADHESIVE CEMENT 81-33—FIRE RETARDANT
NAVY SPECIFICATION 52-C-23 (INT)—TYPE A

For adhering Fiberglas insulation board NC-9, NC-9M and N-9 to rigid surfaces. This material is FIRE RETARDANT in its dry state. Another advantage is the high tensile strength developed in a short length of time. In 24 hours it will withstand a pull of a minimum of 125 lbs. when tested in accordance with the requirements of Navy Specification 52-C-23 (Int).

EXHIBIT "D"

FOSTER L. B. M. INSULATION JOINT FILLER 86-12
FIRE RETARDANT
DESIGNED TO TAKE THE PLACE OF GLASS TAPE

This material is for use in filling the joints between Fiberglas NC-9 or NC-9M insulation board. After a joint ½ inch in width by ¼ inch in depth, has been cut along the joints of board, these joints are filled with the joint filler with a putty knife. This method completely eliminates the use of fabric tape. The material is FIRE RETARDANT. It is compounded from resins that will always remain pliable on the inner surface, yet forming a tough hard surface on the finished face. Navy Specification Fire Retardant paint may be applied over surface.

EXHIBIT "K" FOSTER L. B. M. FIBROUS ADHESIVE 81-27—FIRE PROOF

Foster L. B. M. Fibrous Adhesive 81-27 is a quick-drying cement for use in securing woven Asbestos cloth to insulating compounds employed on pipes or other surfaces where required. It comes ready to apply without heating or mixing with any other ingredients. Meets Navy Department Specifications 52-C-22 (Int).

EXHIBIT "L" FOSTER L. B. M. WATER PROOF CEMENT 15-15
FOSTER L. B. M. O-C MASTIC 90-7

O-C MASTIC 90-7 is a bituminous caulking compound and joint sealer. It has good adhesive qualities and can be used to an advantage in the caulking of cork insulation of most any type. This material also offers good fire resistance.

All products exhibited have been developed in our own research laboratory with a view to the conservation of critical materials and after thorough study, both in the laboratory and in the field of marine requirements, as to Fire Resistance, Smoking, Toxicity and year around application.

BENJAMIN FOSTER CO.
Office: 1411 WALNUT STREET
Factory: 31st AND MAGAZINE LANE
PHILADELPHIA

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Fo

A.I.A. File No. 37 D 3



for all types of thermal and acoustical insulation; for cloth and other fabric coverings over insulation.



for preserving insulating efficiency by preventing entrance of moisture vapor through low-temperature insulations.

foster

products for insulation

—specialized mastic and resinous protective coatings for resistance to destructive forces, natural and mechanical.





4635-37 West Girard Avenue, Philadelphia 31, Pa.

Reprinted from Sweet's Plant Engineering and Industrial Construction Files for 1953

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for fire-retardancy (to 300° F. and above) and fast set . . .

For cementing all types of thermal and acoustical insulation together and to all surfaces. Many general adhesive and heat-resistive uses—

Foster Fire-Retardant Adhesive (81-33)

---

for bedding cellular glass (Foamglas) insulation blocks . . .*

A flexible-setting adhesive-sealer for providing necessary expansion joints between segments of Foamglas* insulation—

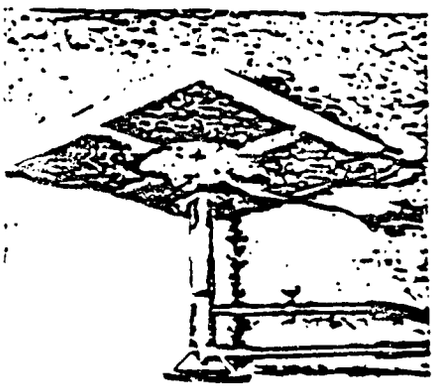
Foster Foam Seal (30-45)

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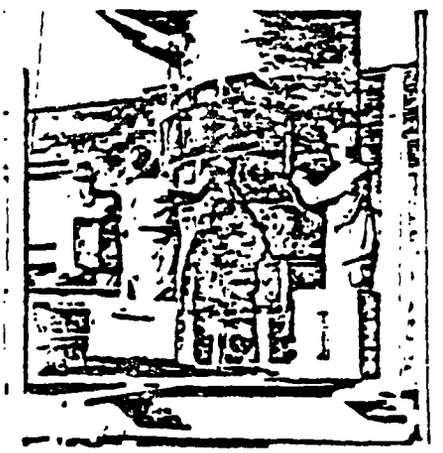
for laminating thermal insulations . . .

Foster Fibrous Adhesive (31-27), quick-setting and inexpensive, for laminating magnesia or Amosite and for cementing asbestos cloth over insulation; not recommended for glass or mineral wool insulations—

and Fibrous Adhesive (81-27).



Onto wall corkboard, over 1600° flame, made non-bumble with coating of Foster Fire-Retardant Adhesive (81-33).



Application of Foamglas* block insulation using Foster Foam Seal (30-45) as bedding compound and to protect material.

---

* T.M. reg. Owens-Corning Fiberglas Corp.
* T.M. reg. Pittsburgh Corning Corp.

foster adhesives • vapor barriers • surface coatings

Vapor barriers

for fire-retardancy . . .

A flexible, fire-retardant coating of very low moisture-vapor-permeability, for use over all thermal insulations; meets Military Specification MIL-P-6376a for vapor barrier over cork pipe covering—

Foster Fire-Retardant Vapor Barrier (30-30)

for weather-resistance . . .

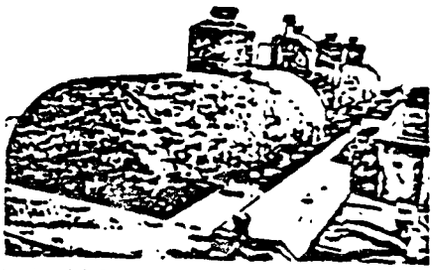
A durable weathercoating over insulated tanks, pipe lines, valves, and fittings—

Foster C. I. Mastic (60-25)

for fire-retardancy and weather-resistance . . .

All the advantages of C. I. Mastic (60-25) plus fire-retardancy and supreme heat-resistance. Easily sprayed or troweled—

Foster Fire-Retardant Mastics (60-60 and 60-30)



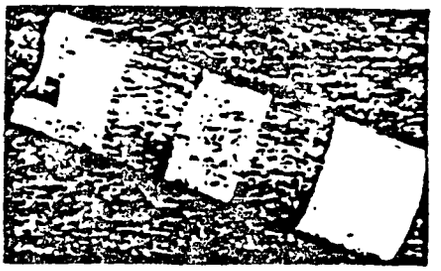
Insulated hot tanks weathercoated and faced with C. I. Mastic (90-7).

Surface coatings for protection against—

weather • moisture • abrasion • puncture • oil and grease • acids, alkalies, and other chemicals . . .

weather, moisture: Weather- and moisture-resistance through Foster Mastics 60-25, 60-60, and 90-7, and through tough Foster Protection Kote 30-1. C. I. Mastic (60-25) or Fire-Retardant Mastic (60-60) should be used when vapor barrier is required; H. I. Mastic (90-7) weathercoats heat insulation. Resinous Protection Kote (30-1), applied by brush, does not sag or run.

abrasion, puncture: Puncture- and abrasion-resistance imparted by brush coats of Protection Kote (30-1) in which is imbedded open-weave glass cloth, or by coats of fire-retardant Sealfas (30-36) with flameproof Sealfas Lagging Cloth. See illustration, and write for details.



A section of Uninsured pipe insulation showing application of Foster Protection Kote (30-1), a layer of treated glass membrane imbedded in wet coating, a second coat of 30-1.

Index to FOSTER SPECIFICATIONS

A reference chart showing the Foster Specifications available to you for the most efficient, economical surfacing of all thermal insulations exposed to every type of surface abuse. Write for your free copy, and, for specifications covering your particular needs.

* T.M. reg. Owens-Corning Fiberglas Corp.
† T.M. reg. Union Asbestos & Rubber Company.

BENJAMIN FOSTER COMPANY

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technical data

The limits indicated in the tables below are [illegible] In many instances, these Foster products have proved satisfactory over [illegible] color ranges. Where questions arise between the ranges listed in the tables or described in these pages, special recommendations will be given gladly upon request.

Product Code No.	Name	Coverage Sq. Ft. per Gal.	Spreading Rate Recommended	Drying Time (Hrs.) Set to Touch	Dry Through	Consistency Brushing Properties	Recommended Use	Base	Color	Thinning Medium	Weight per Gallon	Solids by Volume	Remarks
ADHESIVES													
18-48	[illegible]	12	3-10	[illegible]		100	[illegible]	[illegible]	[illegible]	[illegible]	11.8	[illegible]	[illegible]
61-37	[illegible]	40-60	3-5	1 min.	[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
61-15	[illegible]	15-40	3-10	1-4	12-36	100-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.6	33	[illegible]
VAPOR BARRIERS													
10-38	[illegible]	15-40	[illegible]	1-4	8-24	100	[illegible]	[illegible]	[illegible]	[illegible]	11.1	9.6	[illegible]
60-15	[illegible]	12-15	[illegible]	1-4	8-24	100	[illegible]	[illegible]	[illegible]	[illegible]	9.7	6.6	[illegible]
60-40 and 60-38	[illegible]	15	[illegible]	8	48	100-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.9	5.2	[illegible]
SURFACE COATINGS													
10-1	[illegible]	30-150	[illegible]	1/2-1	24	100	[illegible]	[illegible]	[illegible]	[illegible]	11.6	6.9	[illegible]
60-25	[illegible]	12-15	[illegible]	4-6	8-24	100	[illegible]	[illegible]	[illegible]	[illegible]	9.7	6.6	[illegible]
60-40 & 60-38	[illegible]	15	[illegible]	8	48	100-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.9	5.2	[illegible]
60-7	[illegible]	10-15	[illegible]	1/2-1/2	4-8	120	[illegible]	[illegible]	[illegible]	[illegible]	9.6	5.8	[illegible]

the Foster development program

The Foster laboratories, pioneers in developing accessory materials for low-cost application and maintenance of thermal insulation, are glad to offer their wide experience to help solve your particular insulation or coating problem. New ideas spring from new needs.

© 1952 Benjamin Foster Company

other products

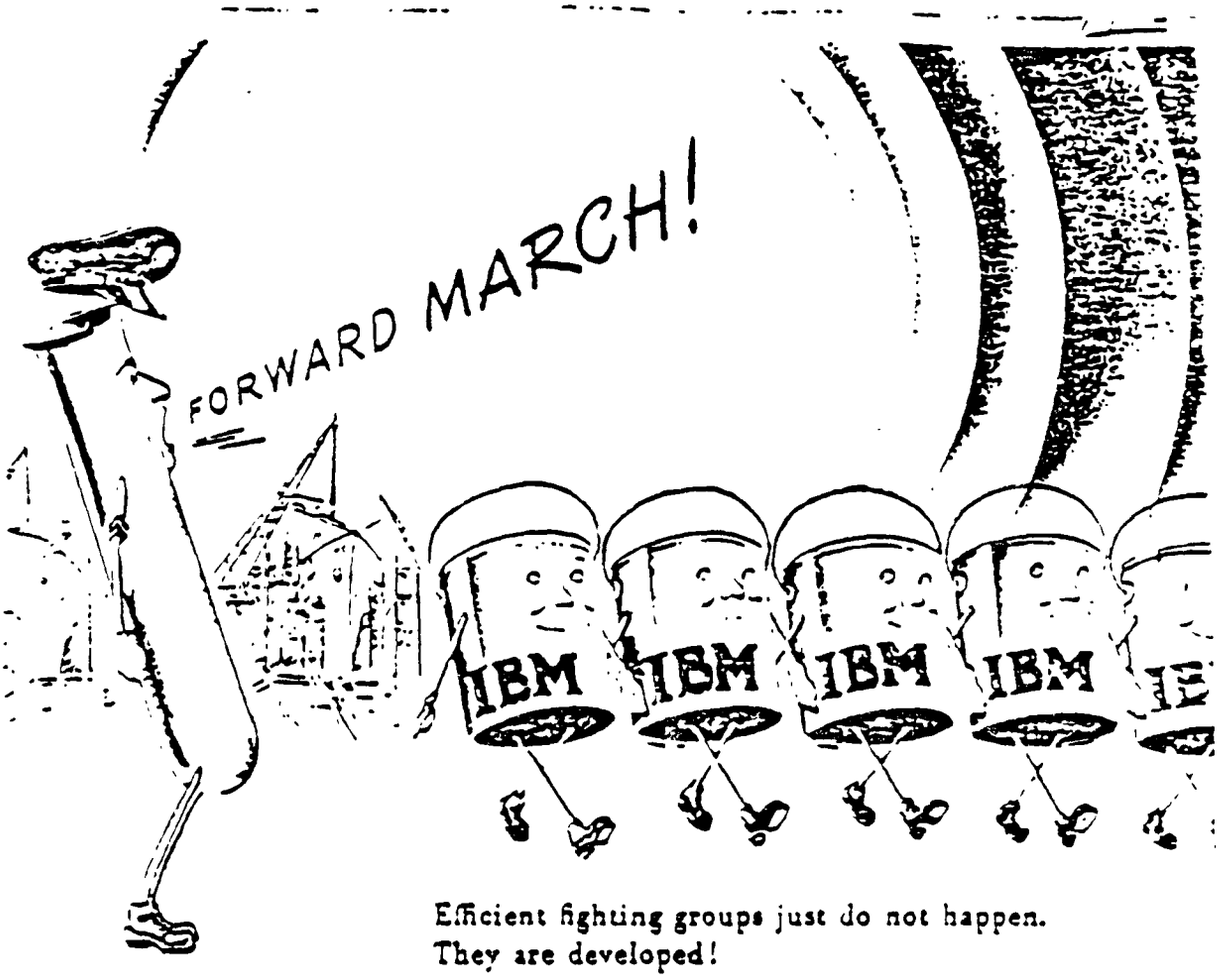
Tri-Guard system of chemical-resistant coatings for metals and masonry.
Res-Talic and Vinyl coatings.
Waterproofing and roofing compounds.
Linu-Tect Wall and Floor Tile Adhesives.

foster

BENJAMIN FOSTER COMPANY

manufacturers of
industrial coatings, sealers, and adhesives

4635-37 West Girard Avenue, Philadelphia 31, Pa.



Efficient fighting groups just do not happen.
They are developed!

That is the story back of the 24 Foster I B M Marine Products . . . that is why Foster is recognized not only as pioneers in Chemical Research but, also, as suppliers of dependable Adhesive Cements and Thermal Insulation Surfacing Materials.

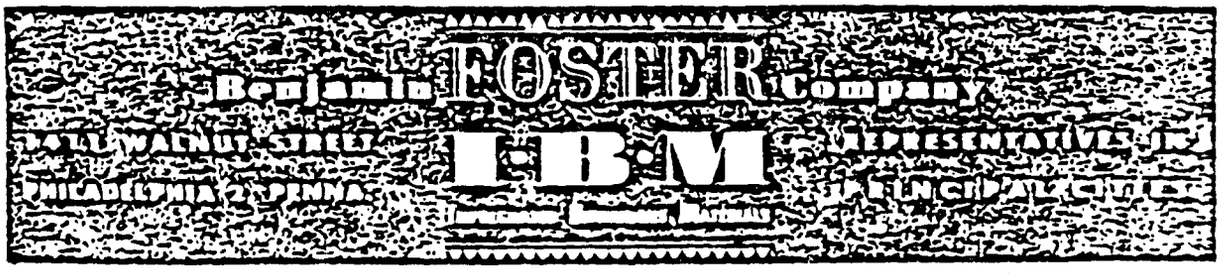
Of course, the Foster factory is modern . . . but the essential factor is the completely equipped and manned scientific Laboratory. Here endless Research Study is carried on. Each phase of manufacture is Laboratory Controlled. This is the Foster Users' Assurance that each Foster item performs on the job exactly as intended.

The Test Tube is in command.

FOSTER ADHESIVES

This folder lists the leaders of the Foster line.

You'll find an adhesive that will do your particular job ...if not, tell us about your specific requirement—no doubt you'll get the answer.



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asbestosclaims.law/library/25106/107

FOSTER **F·B·M** MARINE PRODUCTS

THERE IS NO ALL PURPOSE FOSTER I. B. M. ADHESIVE CEMENT!

Each Adhesive Problem has its individual characteristics . . . materials to be laminated . . . range of temperatures in service . . . conditions in the field during application . . . water and vapor repellence required . . . fire retardance desired.

This important truth . . . learned through more than a quarter of a century of active experience in formulating and manufacturing of Adhesive Cements for varied Industrial Uses . . . is a fixed factor in the policy of Benjamin Foster Company.

Foster I. B. M. Adhesive Cements enjoy a most enviable reputation in a wide range of Industrial Applications . . . Railways . . . Automotive . . . Marine . . . Building and other Construction. This prestige was achieved only by furnishing compounds especially formulated to exactly meet the particular requirements of the individual jobs.

Foster I. B. M. Adhesive Cements for Marine Use follow this same pattern. All manufacturing is laboratory controlled . . . intimate knowledge of the behavior of every ingredient used, and actual conditions of applications . . . full consideration of the kinds of service encountered by the finished ship (in the tropics—or in the arctic zone—in War—or in Peace) . . . these are the factors that assure satisfaction to users of Foster Products.

Here are listed but a few items of the Foster line.

If you do not see what you think would meet your requirements . . . submit your problem to Foster they delight in solving new problems.

Affixing Hull Insulation

Q. . . Foster I. B. M. Adhesive Cement #81-33

Does a splendid job in fastening to steel surfaces rigid board type hull insulation . . . such as glass fiber, corkboard, etc. This Cement conforms to the requirements of Navy Specification 52-C-23 Type A and Amendment #3 of October 1st, 1943.

The Navy Specification requires a given degree of Tensile Strength . . . to be reached in a period of seven days. This Foster Cement attains this degree IN ONE DAY . . . 24 hours. This remarkable speed in drying and attaining proper Tensile Strength is a decided advantage in cold weather . . . shoring is minimized, and under some conditions eliminated. SHIP-YARD labor and time are MINIMIZED.

Not only is this Cement really Fire-Retardant . . . ITS BONDING POWER IS UNAFFECTED BY TEMPERATURES UP TO 1400°F. A fire on one side of a bulkhead will not cause the insulation boards on the other side to fall off.

The use of this Foster I. B. M. Cement makes a real Fire-Barrier.

Cementing Vent Duct Insulation

... Foster I. B. M. Fire-Retardant Adhesive Cement #81-30

This Cement is Fire-Retardant, in both the wet and dry state. A rust-inhibitor has been emloyed in the water emulsion . . . metal surfaces are thus protected.

This Tape Cement conforms to Navy Specification 52-C-23 Type II and Amendment #3 of October 1st, 1943.

Varied types of insulation are used on vent ducts . . . and pursuant to the Foster Policy of adequately meeting the requirements of the individual job . . . three different Adhesive Cements are available for Vent Duct Insulation.

(b) Glass Fiber Rigid Board. Foster I. B. M. Fire-Retardant Adhesive Cement #81-33 should be used. (See paragraph "Q".)

(c) Asbestos Cellular Board. Foster I. B. M. Adhesive Cement #81-36 should be used . . . a heavy-bodied adhesive . . . firmly bonds the asbestos cellular board to metal surfaces.

Pipe Lagging

T... Foster I. B. M. Adhesive Cement #81-27

Especially intended to be used in cementing Woven Asbestos. Conforms to Navy Specification 52-C-22.

Here again, typical of Foster Policy, there are different Foster Adhesives to exactly meet the requirements of the particular job.

Catalog

A Condensed Listing of the Foster Items Mentioned in This Folder

CODE	NAME	CONFORMS WITH NAVY SPECIFICATION	TO CEMENT	SEE PARAGRAPH
#3	Turbine Cement	*	Amesite Blocks and Woven Asbestos Cloth	"A"
#81-27	Adhesive Cement	52-C-22	Woven Asbestos Pipe Lagging	"T"
#81-33	Adhesive Cement	52-C-23 Type A and Amendment 3	Hull Insulation	"Q"
#81-36	Adhesive Cement	*	Asbestos Cellular Board	c of "S"

*There is no Navy Specification available on these adhesives.

FOSTER E·B·M MARINE PRODUCTS

FOSTER F·B·M MARINE PRODUCTS

Vapor Sealers ·

FOSTER FBM FIRE-RETARDANT SEALER 30-33 is used as a sealer for cloth surfaced Fiberglas® Insulations. It is applied like paint and complies with Navy Specifications 52-C-23, Type II as amended October 1, 1943.

FOSTER FBM FIRE-RETARDANT VAPOR-SEAL 30-36 has also been approved by the Navy as a Vapor-Seal for [illegible] pipe insulations for refrigeration lines and is widely used because of its low cost.

Pipe Lagging Sealers · Joint Fillers · Caulking ·

FOSTER FBM FIRE-RETARDANT FITTING FILLER 85-15 is especially designed for filling the joints of cork insulations. Because of its non-shrinking properties this product produces a permanent seal for any joint.

FOSTER FBM FIRE-RETARDANT JOINT FILLER 85-12 is used to fill joints between Fiberglas® insulations and steel beams. Because of its non-shrinking properties this product produces a permanent seal for any joint.

These and Other Foster Marine Products Detailed in Bulletin 444

FOSTER I·B·M MARINE PRODUCTS

For thirty-five years . . . continuously since 1910 . . . The Benjamin Foster Company has been actively engaged in the Research, Development, Manufacturing and Marketing of dependable products.

The product is fitted to the job . . . the absolute requirements of the individual application has been the determining factor of the formulation and production. Assisting in the solution of actual problems . . . new applications of existing products . . . the development of a new product to meet new needs . . . is a specialty with this Company.

The Marine Field was first served in 1918, when 180,000 square feet of Foster Deck Covering was applied to each of more than a dozen of the largest U. S. Transports at Hog Island . . . a total of more than 2,000 tons of material. For more than one-quarter of a century Foster Chemical Engineering and Manufacturing has satisfactorily served the Maritime needs . . . and has adequately fulfilled its rigid requirements . . . and has contributed much to Fire-Safety.

In 1937 The Benjamin Foster Company launched an extensive and intensive research study to ascertain the possibilities of improving adhesive cements and protective coatings with the use of synthetic resins (taking full advantage of the up-to-the-minute developments) as the basic ingredient. The result was most gratifying . . . the product incorporating synthetic resins was found to be more durable and easily applied. Not only were old products improved . . . but, several new ones were developed . . . and now, The Benjamin Foster Company is recognized as "Headquarters" for Fire-Retardant Adhesives and Protective Coatings.

The Foster I. B. M. trade mark, adopted in 1928, now applies to 24 different Marine Products . . . all of original formulation . . . and carefully compounded to fully meet actual service requirements.

This folder describes the leaders of Foster I. B. M. Marine Products . . . all the result of many years of Research, and intimate experience with field requirements . . . all manufactured under strict Laboratory Control.



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FOSTER I·B·M MARINE PRODUCTS

3 [illegible] has been approved by the Navy as a Vapor-Seal for cork pipe insulation for refrigeration lines and is widely used because of its lower cost.

9 [illegible] is a quick setting cement for use in covering woven asbestos cloth on pipe lagging to insulating compounds employed on pipes or other surfaces. This product conforms with Navy Specification MIL-C-22.

11 [illegible] is especially designed for filling the joints of cork insulation. Because of its non-shrinking properties this product produces a permanent seal for any joint.

19 [illegible] is used to fill joints between Fiberglas insulation and cork lagging. Because of its non-shrinking properties this product produces a permanent seal for any joint.

FOSTER I. B. M.
FIRE RETARDANT ADHESIVES

For Use in Installing Duct Insulation Using Asbestos Cellular Board

One coat of Foster I. B. M. Fireproof Adhesive Cement 81-36 is applied by brush to the metal surface, Fig. 3 (A), and into this is embedded the asbestos cellular board, Fig. 3 (B). The surface of the cellular board is then given a brush coat of the same material, into which a sheet of asbestos manne tape is embedded, Fig. 3 (C).

CHARACTERISTICS OF

FOSTER I. B. M. FIREPROOF ADHESIVE CEMENT 81-36

A. This is a heavy bodied, quick setting Adhesive, which is permanently fireproof in both the wet and dry state.

B. It is easily applied by brush and produces a film which is white in color.

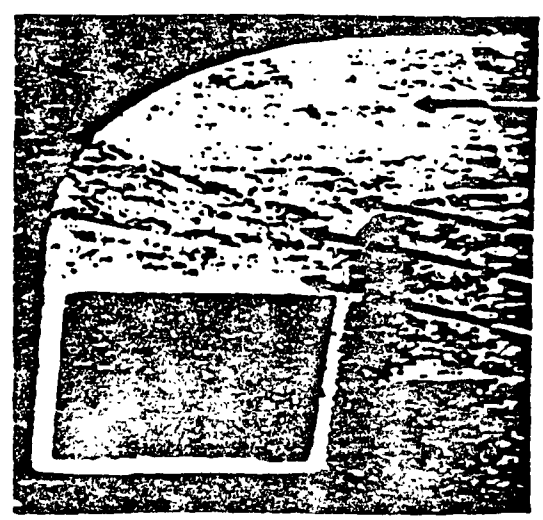


Fig. 3

All Foster I. B. M. Marine Products have been developed in our own research laboratory with a view to the conservation of critical materials and after thorough study, both in the laboratory and in the field of marine requirements, as to fire resistance, intimate factory and your ground application.

BENJAMIN FOSTER COMPANY

Offices 1411 WALNUT STREET Factory: 31st STREET AND MAGAZINE LANE

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