PLAINTIFF'S EXHIBIT
UC-1003

A23335

BUSINESS CONFIDENTIAL

To : J.F. Edwards
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From : A. Melnikoff

Date : 8th December, 1981

Chemicals & Plastics Laborato:
Union Carbide Europe SA
Versoix, Geneva

Period: November, 1981

Technical Service Report

Highlights

ORGANOFUNCTIONAL SILANES

Stability tests at 50°C on Silcat R show inhibitors satisfactorily stabilise the product for five months, while the uninhibited sample shows deterioration already after three months. These evaluations are needed to determine whether special storage conditions must be observed by Middle East and North African customers.

LOW PROFILE ADDITIVES

The increase of filler level from 150 to 200 phr made possible with the use of VR-3 does not result in any significant deterioration in laminate physical properties.

COATINGS

Following intensive technical service help for over a year, Everitube/France finally approved VMCH for their asbestos cement roof tile coatings and contracted for 130 tons resin for the first half of 1982.

Addition of a small quantity of phosphoric acid to a VROH/VMCA topcoat gave significantly improved adhesion to Schmidt and Berewinkel's two-pack etch primer.

URETHANE CATALYSTS

Data showing the superior tin latitude of NIAX B-2 versus Goldschmidt Tegoamin PMD in ultra-low density flexible formulations were developed in preparation for the Middle East technical service trip.

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MATERIALS

WEATHER-BARRIER LATEX MASTIC

The raw material suppliers for ingredients in the E-1297 formulation are:

1. KTPP in place of CALGON Water Softener from Stauffer Chemical in combination with 3 lbs. of TRITON X-405. Use o.5 lb. of KTPP. CALGON , of course can be purchased at any Supermarket as water softener. Larger amounts can be obtained from CALGON CORPORATION.

2. COLLOID 677 Defoamer can be obtained from Colloids Inc.Newark,N.J.

3. CALIDRIA HPO Fibers are obtained from the Metals Division of Union Carbide out of our Houston,Tx. office(713/840-6000). For asbestos-free formulation replace it with 10 lbs. of Mini-Fiber 13040M from Mini-Fiber Corp.,Weber City, Virginia (703/452-4205).

4. MINERALITE 3X is made by Mineralite Sales Corp. through a distributor called Thompson-Hayward.

5. KINGSLEY CLAY is a coarse clay from United Sierra/Cyprus Mines Corp.

6. CHLOROWAX 40 is from Diamond Shamrock Chemical Co.

7. Antimony Oxide can be obtained from Harshaw Chemical Co. or NL Industries. It is toxic material but aids fire-retardance. It can be replaced with the clay , if desired.

8. Tricresyl phosphate is a plasticizer from Union Carbide Corp. or its distributors. It may be difficult to get so also ask for Tributyl phosphate as an alternate(Same source).

9. PMA-30 Mildewcide can be obtained from D & F Distributing Co. Dallas, TX.(214/745-1556).

10. DICALITE WB-5 is made by Great Lakes Carbon Corp. but can be obtained from Grefco,Inc. P.O. Box 458 Arlington,TX. 76010.

In regard to procedure for manufacture of E-1297 please note its simplicity:

Add the components in the order listed under agitation in a slow-speed ribbon blendor or Baker-Perkins type mill(Sigma Blade at 79 RPM). Mix the first four ingredients for ten minutes,stop mixer; add next four items; mix another ten minutes, then add the final four ingredients. Continue mixing for another hour or until free of visible lumps when spread on a flat surface with a wide spatula. Avoid high-speed disc dispersers as fine air entrainment may become a problem in the thick mastic-like material. For brush or spray application the consistency let-down can be adjusted by adding water toward the end of the mixing cycle to as low as 65% solids by weight.

Using the ASTM E-162 "Test For Surface Flammability of Materials" or Federal Specification 00136A for 1/16 inch thick films over asbestos-cement board; good flame -retardance was observed in a laboratory test. This test and results are not intended to reflect hazards presented by this formulation under actual fire conditions.

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UNION CARBIDE CORPORATION
COATINGS MATERIALS
RESEARCH AND DEVELOPMENT DEPARTMENT

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