PLAINTIFF'S EXHIBIT

UC-3646

TOMOE ENGINEERING COMPANY. LTD.

(ANNEX OFFICE)
SHIN SHIN KAIKAN BUILDING
14-1, NIHONBASHI 3-CHOME, CHUO-KU
TOKYO, JAPAN

MAIN OFFICE:
DAINI MARUZEN BUILDING
9-2, NIHONBASHI 3-CHOME, CHUO-KU
TOKYO, JAPAN

CABLE ADDRESS: "TOMOT"
TELEX: 02223908 TOMOT TOK
TELEPHONE: TOKYO 274-0411

Date of Call: February 21, 1973

Customer: Showa High Polymer Co., Takasaki Mill

Interviewed Person:

Mr. M. Nemoto, Chief of Manufacturing Section

Visited by:

Messrs. J. L. Myers - UCC
F. S. Wada - UCSEL
H. Fukuma - TEC
T. Mito - TEC

1. Problem of health hazards

By submitting "The safe use of Calidria RG-244" to them, we explained the safety in using RG-244 in order to remove their concern.

2. Mixing method

They are using a high speed mixer. We explained to them the mixing methods by Cowles, Sonolater and Vortex Mixer. We cautioned them against excess mixing which will cause SiO_2 coated onto RG-244 to come off and decrease thixotropic effect.

3. Water resistance

The property of water resistance was found poor by their test, as shown in the following test data.

Water absorption of polyester resin

Time (in boiling water)	8 hrs.	24	48	72
Aerosil 0.5% #4 41.8%	1.97	2.80	3.19	3.30
RG-244 0.5% #4 41.8%	2.29	4.15	3.68	2.20

Union Carbide trial exhibit UC-3646: Tomoe Engineering Call Report on Showa High Polymer Co., Takasaki Mill, C... Published by AsbestosClaims.Law
ACL Doc 18372 · Page 1 of 2 asbestosclaims.law/library/18372/1

Viscosity and T.I.

	0.5%(ST 42%)		1.25%(ST43%)		3.0%(ST49%)	
Thixotropic Agent	Aerosil	RG-244	A	244	A	244
Viscosity	3.9(poise/ 25°C)	3.3	8.0	7.4	17.0	48.0
Thixo Index	1.9	1.6	3.1	2.8	5.9	5.0
	Vis ↓ Ti ↓					
After 13 days passed	2.4 (1.0)	2.8(1.0)				
" 25 "					15.5(5.7)	44.0(4.3
" 30 "			5.2(2.5)	5.4(1.4)		

4. Polyester resin formulation

   a. resin: polyglycol (PG) 10%, phthalic acid (PA) 5%
   maleic acid (MA) 5%, stylene (ST) noted above

   b. catalist: Not contained

5. Gelation condition

   Gelation is carried out at room temperature with use of the catalyst (MEK PO 1%, cobalt naphthalene 0.5%)

6. Mixing method

   at 2,000 rpm for 15 to 20 minutes

As indicated in the foregoing data, it is not possible to use RG-244 for gel coating, which requires high thixotropy, because viscosity increases too much, and this problem remains to be solved in the future, as well as improving water resistance.

We agreed to provide them with a sample of RG-244 treated with A-174 for their study for improving water resistance.

Union Carbide trial exhibit UC-3646: Tomoe Engineering Call Report on Showa High Polymer Co., Takasaki Mill, C... Published by AsbestosClaims.Law
ACL Doc 18372 · Page 2 of 2 asbestosclaims.law/library/18372/2