Calidria ASBESTOS
UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

June 28, 1976

PLAINTIFF'S EXHIBIT UC-728

Mr. R. Terrence McCabe
Interplastic Corporation
Commercial Resins Division
2015 N.E. Broadway
Minneapolis, MN 55413

Dear Terry:

As you requested, a copy of the procedure we use to determine the viscosity of RG-244 is enclosed. The test was designed to be as "idiot-proof" as possible, so please pardon some of the obvious instructions.

We have used Rohm & Haas P-43 since 1967 when RG-244 was introduced and, except for a few instances when a Commercial resin was used, our whole quality control history has been established with this product. We are planning to reevaluate our standards and at that time we would like to ask your recommendation on which Commercial resin we should use. My guess is we will be doing that in 1977.

If you need any additional information on the viscosity test, please let us know.

Very truly yours,

Edward J. Kleber
Midwest Sales

EJK:cjb
Enclosure

Carbide ASBESTOS

UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

DETERMINATION OF VISCOSITY

I. APPARATUS

1. 1750 ± 50 rpm mixer with a 5 cm. dia. three blade propeller.
2. Viscometer: Brookfield LV
3. Mixing cup: 400 ml. graduated disposable beaker.
4. Viscosity cup: 100 ml. graduated disposable beaker.
5. Constant temperature bath.

II. PROCEDURE

A. Preparation of stock polyester resin mixture.

1. Mix Rohm & Haas P-43 Resin (or equivalent) and styrene monomer in an approximately 10 to 1 ratio to provide a viscosity of 550 ± 25 cps at 25 ± .5°C.

   a. To make approximately 5 gal., mix 39.6 lb. of resin and 4.4 lb. of styrene. These ratios will vary slightly with different supplies of resin.

2. The viscosity of the resin should be checked periodically (about every 8 to 10 determinations) and adjusted to 550 ± 25 cps.

B. Viscosity Analysis

1. Mix by hand 4.0 grams of sample into 196.0 gm. of resin in a 400 ml. disposable beaker.
2. Stir for 10 minutes with cleaned propeller mixer.
3. Cover the mixture and allow to stand for 1 hour in a constant water bath set at 25 ± 0.5°C.
4. Pour slowly into a clean 100 ml. disposable beaker.

   NOTE: Do not mix or scrape sides.

5. After exactly 5 minutes, measure viscosity at 6 RPM with No. 4 spindle. Read viscosity after 1 minute.

6. Clean spindle with acetone and wipe clean with dry cloth or tissue paper. Let it further air dry at room temperature.

NOTE: Do not leave spindles in the water bath.

7. Clean propeller mixer with acetone periodically, preferably after each mixing.

NOTE: In operating viscometer, make sure the lever clutch is depressed before starting.

III. REPORT - Viscosity, cps.