RUCOTE® 118

**PRODUCT DESCRIPTION**

RUCOTE 118 is a high viscosity hydroxyl functional polyester resin designed to produce polyurethane powder coatings with good edge coverage and very good gloss and DOI. RUCTOE 118 may demonstrate high Tg for enhanced sintering resistance. RUCOTE 118 is also suitable in textured finishes and in wrinkle coatings (see Formulation 2). As with any product, use of RUCOTE 117 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

**TYPICAL PROPERTIES**

- Acid Value (mg KOH/g) 13
- Hydroxyl Number (mg KOH/g) 41
- Viscosity (ICI cone and plate at 200°C/cPs) 7200
- Glass Transition Temperature (Tg), °C 68
- Color, max 2

**TYPICAL COATINGS**

- RUCOTE 118 51.9
- Crelan™ NW 5 13.1
- Flow Control Agent 1.5
- Benzoin 0.5
- Titanium Dioxide 33.0

**TYPICAL CURED COATING PROPERTIES 1**

- Film Thickness (mil) 2.0
- Gloss, 60° 90
- Gloss, 20° 79
- DOI 82
- Pencil Hardness 6H
- Conical Mandrel Bend Pass 30%
- Impact Resistance
  - Forward, inch-lbs (kg.cm) >160 (>180)
  - Reverse, inch-lbs (kg.cm) >160 (>180)
- MEK Double Rubs (100x) very slight surface marring

Cure Schedule: 10 minutes at 392°F (200°C), 20 minutes at 365°F (185°C).

**TYPICAL COATINGS FORMULATION 2**

- RUCOTE 118 57.92
- Cytec Powderlink 1174 3.73
- Estron Escat 320 0.15
- Barium Sulfate 35.0
- Carbon Black 3.0
- Flow Modifier 0.5

100%
TYPICAL
CURED
COATING
PROPERTIES 2

Film Thickness (mil) ________________________________ 4.0-4.5
Impact Resistance
  Forward, inch-lbs (kg.cm) ________________________________ 40
  Reverse, inch-lbs (kg.cm) ________________________________ 20
MEK Double Rubs (100x) ________________________________ softens

Cure Schedule: 15 minutes at 392°F (200°C), produces a dimensional wrinkle finish.

STORAGE

RUCOTE 118 should be stored in a clean, dry environment at temperatures not exceeding 120°F (49°C). The shelf life for this product is 36 months from date of manufacture.

A Material Safety Data Sheet is available upon request.

All polyurethane foam burns in varying degrees, which in turn liberates toxic gases; the foam should be evaluated in its final form for compliance to existing standards in your industry. Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer’s own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, use or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee’s employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.