

PEARL COAT 9304

TECHNICAL DATA SHEET

APPLICATION:

TGIC Cure Polyester Resin 9307 for architectural purpose.

PRINCIPAL PROPERTIES

- Outdoor Durable
- Good Flexibility
- High Tg

PRODUCT SPECIFICATIONS

| PROPERTY | RANGE | UNIT | TM |
|------------|-------|--------------|---------|
| Viscosity | 45-55 | Poise | 4287-94 |
| Acid value | 30-36 | Mg of KOH/gm | 2400 |
| Color | Max 4 | Gardner | - |
| Tg | 66-70 | °C | DSC |

STORAGE GUIDELINES

The resin should be stored indoors in the original unopened and undamaged bags in a dry place at storage temperature below 30°C. Exposure to direct sunlight should be avoided.

SHELF LIFE

Under the above-mentioned storage conditions the shelf life of the resin will be 12 months ex-works.

DELIVERY FORM

Granules in 25 kgs HDPE bags

STARTING FORMULATION
White Glossy Coating

| Component | Weight |
|--------------------|--------|
| 9301 | 55.80 |
| TGIC | 4.20 |
| Filler (Blank fix) | 8.30 |
| Flow Aid | 0.80 |
| Titanium Dioxide | 30.00 |
| Benzoin | 0.30 |
| PE Wax | 0.20 |
| Fumed Silica | 0.20 |

MATERIAL SAFETY

A material safety data sheet is available on request.

APPLICATION PROCEDURE

Tribo or corona spray gun, voltage 60-80 KV: 0.4-0.8mm MS panels, pretreated, coating thickness appr. 50-60 microns, stoving in air circulation oven.

BAKING SCHEDULE

10 minutes at 200°C effective metal temperature.

MECHANICAL PROPERTIES OF GLOSSY POWDER COATING

| PROPERTY | VALUE | UNIT |
|--|-------|-------|
| Cupping test (Erichsen slow penetration) | >5 | mm |
| Forward impact (ASTM 2794) | 160 | Kg.cm |
| Reverse impact (ASTM 2794) | 160 | Kg.cm |
| Salt spray test 1000 hrs | Pass | - |
| UV resistance | 300 | hrs |