

## General Description

CRYLCOAT® 2818-0 is a hydroxyl functional polyester resin with for use with blocked aliphatic and aromatic isocyanates in the production of powder coatings. CRYLCOAT® 2818-0 is also suitable for use with poly-anhydride hardeners like BECKOPOX™ EH 694 to obtain high Tg, thermal resistant coatings.

## Saturated Polyester Resin

### Product Specification

|                                      | Limits        |
|--------------------------------------|---------------|
| Appearance                           | Pale granules |
| Hydroxyl value (mg KOH/g)            | 90-110        |
| Brookfield Viscosity @ 200 °C, mPa.s | 2500-3500     |
| Color, b-value                       | Max. 15       |
| Acid value (mg KOH/g)                | ≤ 3           |

### Other Properties

|                       | Typical value |
|-----------------------|---------------|
| Glass transition (°C) | Approx. 58    |

### Starting Formulation

| Component        | Weight (%)       |      |
|------------------|------------------|------|
|                  | CRYLCOAT® 2818-0 | 34.4 |
| ADDITOL® P 932   | 27.1             | --   |
| BECKOPOX™ EH 694 | --               | 15.4 |
| ADDITOL® P 896   | 3.0              | 3.0  |
| Titanium dioxide | 25.0             | 25.0 |
| Barium sulfate   | 10.0             | 10.0 |
| Benzoin          | 0.5              | 0.5  |

### Extrusion & Application Conditions

| Extrusion   |   |
|-------------|---|
| Extruder    | Twin screw  |
| Speed       | 300 rpm   |
| Torque      | 40 to 50 %  |
| Temperature | 110 to 120 °C   |
| Application |   |
| Application | 60 micrometer film on steel panel   |
| Spray Gun   | Output voltage: 60 kV<br>ADDITOL® P 932: 10 min @ 190 °C<br>metal temperature |
| Curing      | BECKOPOX™ EH 694: 10 min @ 190 °C<br>metal temperature                        |

### Film Properties

| Test                                       | Result  |
|--|---------|
| Gloss @ 20°/60° (%)                        | 81/92   |
| Direct/reverse impact (kg. cm or in. lbs.) | 160/160 |

### Shelf Life

Under normal storage conditions (≤30°C), the shelf life of the resin will be 24 months from date of manufacturing. For product older than 24 months, it is recommended to check the acid value and the viscosity every year.

### Safety & Environmental Protection

For more information, please refer to the Material Safety Data Sheet.

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