

## General Description

CRYLCOAT® 4643-3 is a reactive superdurable carboxyl functional polyester resin for use with Primid® XL 552 in ratios 93/7 designed for applications with excellent outdoor resistance.

## Saturated Superdurable Polyester Resin

### Product Specification

|                                      | Limits        |
|--------------------------------------|---------------|
| Appearance                           | Pale granules |
| Brookfield Viscosity @ 200 °C, mPa.s | 1200-2400     |
| Color, b-value                       | Max. 15       |
| Acid value (mg KOH/g)                | 47-53         |

### Other Properties

|                       | Typical value |
|-----------------------|---------------|
| Glass transition (°C) | Approx. 52    |

### Starting Formulation

| Component             | Weight (%) |
|-----------------------|------------|
| CRYLCOAT® 4643-3      | 64.8       |
| Primid® XL 552        | 4.9        |
| Titanium dioxide      | 29.0       |
| MODAFLOW® Powder 6000 | 1.0        |
| Benzoin               | 0.3        |

### Extrusion & Application Conditions

| Extrusion   |  |
|-------------|--|
| Extruder    | Twin screw                               |
| Speed       | 250 rpm                                  |
| Torque      | 80 ± 5 %                                 |
| Temperature | 95 to 105 °C                             |
| Application |  |
| Application | 60 micrometer film on chromated Al panel |
| Spray Gun   | Output voltage: 60 kV                    |
| Curing      | 10 min @ 160° C metal temperature        |

### Film Properties

| Test                | Result |
|---------------------|--------|
| Gloss @ 20°/60° (%) | 87/93  |

### Shelf Life

Under normal storage conditions (≤25°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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