

### General Description

CRYLCOAT® 1551-6 is a highly reactive carboxyl functional polyester resin that is designed to produce 50/50 hybrid powder coatings. The resin is to be used with low viscosity epoxy resin and is suitable for the production of smooth or textured coatings on metal and heat sensitive substrates such as MDF.

### Saturated Polyester Resin

#### Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	3000-7000
Color, b-value	Max. 20
Acid value (mg KOH/g)	68-74

#### Other Properties

	Typical value
Glass transition (°C)	Approx. 51

#### Starting Formulation

Component	Weight (%)
CRYLCOAT® 1551-6	34.3
Epoxy resin (EEW 700-900)	34.3
Titanium dioxide	30
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

#### Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	85-90 %
Temperature	80 °C
Application	
Application	60 micrometer film on 0.5mm chromated Al panel
Spray Gun	Output voltage: 60 kV
Curing	5 min @ 160° C metal temperature 10 min @ 140° C metal temperature

#### Film Properties

Test	Result
Gloss @ 20° / 60° (%)	98 / 102

#### Shelf Life

Under normal storage conditions ( $\leq 25^{\circ}\text{C}$ ), the shelf life of the resin will be 12 months from date of manufacturing. For product older than 12 months, it is recommended to check the acid value and the viscosity every 6 months.

#### Safety & Environmental Protection

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

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