CRYLCOAT® 1501-6

Technical Datasheet

General Description

CRYLCOAT® 1501-6 is a highly reactive carboxyl functional polyester resin for use in the production of 50/50 hybrid powder coatings. This resin is designed for use with low viscosity epoxy resins and is suitable for the production of coatings at cure temperatures as low as 130° C on MDF substrates. Coatings based on CRYLCOAT® 1501-6 combine good flow with high gloss and chemical resistance.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	3500-6000
Color, b-value	Max. 20
Acid value (mg KOH/g)	66-74

Other Properties

	Typical value
Glass transition (°C)	Approx. 50

Starting Formulation

Component	Weight (%)
CRYLCOAT® 1501-6	34.3
Epoxy resin (EEW 700-900)	34.3
Titanium dioxide	30.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	80 ± 5 %
Temperature	80 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 130-140° C metal temperature

Film Properties

Test	Result
Gloss @ 20/60° (%)	90/100

Shelf Life

Under normal storage conditions (≤25°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 year.

Safety & Environmental Protection

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

July 2020 – Supersedes previous versions