

General Description

CRYLCOAT® 1716-1 is a tribo active, medium reactive carboxyl functional polyester resin designed for 70/30 hybrid powder coatings. Formulations based on CRYLCOAT® 1716-1 exhibit very good flow with very high gloss. Formulated with former Vestagon® B 68 type matting hardener (Evonik) matte coatings can be obtained.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	4500-8500
Color, b-value	Max. 15
Acid value (mg KOH/g)	27-33

Other Properties

	Typical value
Glass transition (°C)	Approx. 57

Starting Formulation

Component	Weight (%)
CRYLCOAT® 1716-1	41.2
Epoxy resin (EEW 700-900)	17.7
Titanium dioxide	39.7
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	70-80 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on steel/chromated AL panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 180° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	92
Direct/reverse impact on steel (kg cm or in. lbs.)	160/160
Direct/reverse impact on Al (kg cm or in. lbs.)	80/80

Shelf Life

Under normal storage conditions ($\leq 30^{\circ}\text{C}$), 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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