

General Description

CRYLCOAT® 2814-0 is a hydroxyl functional polyester resin with very high hydroxyl content for use with polyisocyanate hardeners. Coatings based on CRYLCOAT® 2814-0 can be used to produce both glossy and matte polyurethane finishes that exhibit excellent hardness, stain resistance and are suitable for anti-graffiti powder coatings.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Hydroxyl value (mg KOH/g)	270-320
Brookfield Viscosity @ 200 °C, mPa.s	2500-4000
Color, b-value	Max. 15
Acid value (mg KOH/g)	Max. 14

Other Properties

	Typical value
Glass transition (°C)	Approx. 52

Starting Formulation

Component	Weight (%)
CRYLCOAT® 2814-0	18.5
ADDITOL® P 932	43.0
ADDITOL® P 896	3.0
Titanium dioxide	25.0
Barium sulfate	10.0
Benzoin	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
Curing	10 min @ 200 °C metal temperature

Film Properties

Test	Result
Gloss @ 20°/60° (%)	73/89
Direct/reverse impact (kg. cm or in. lbs.)	160/160

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 year.

Safety & Environmental Protection

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

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