

General Description

CRYLCOAT® 2431-0 is a carboxyl functional polyester resin for use with TGIC in a 90/10 ratio to manufacture powder coatings preferably smooth G30 matte dry blend systems in combination with CRYLCOAT® 2452-2. Formulations based on CRYLCOAT® 2431-0 exhibit good flow, high solvent resistance, excellent outdoor weathering resistance and outstanding storage stability.

(Formerly CRYLCOAT® E 04131)

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	3500-5500
Color, b-value	Max. 15
Acid value (mg KOH/g)	45-55

Other Properties

	Typical value
Glass transition (°C)	Approx. 68

Starting Formulation

Component	Weight (%)
CRYLCOAT® 2431-0	61.7
TGIC	6.9
Titanium dioxide	30.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	95 to 105 °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 @ 60° (%)	90
Direct/reverse impact (kg. cm or in. lbs.)	160/160

Shelf Life

Under normal storage conditions (≤30°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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