

General Description

CRYLCOAT® 4420-0 is a carboxyl functional superdurable polyester resin for use with TGIC in a 90/10 ratio or Primid® XL 552 in 92/8 ratio. Formulations based on CRYLCOAT® 4420-0 exhibit good flow and outstanding outdoor resistance. Dry blends with CRYLCOAT® 4430-0 (TGIC) or with CRYLCOAT® 4641-0 (Primid®) provide semi-gloss coatings.

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	4500-6600
Color, b-value	Max. 10
Acid value (mg KOH/g)	49-54

Other Properties

	Typical value
Glass transition (°C)	Approx. 64

Starting Formulation

Component	Weight (%)	Weight (%)
CRYLCOAT® 4420-0	63.2	61.8
TGIC	-	6.9
Primid® XL 552	5.5	
Titanium dioxide	30.0	30.0
MODAFLOW® Powder 6000	1.0	1.0
Benzoin	0.3	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	70 - 80 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	>90
Gloss @ 60° (%) matte dry blend with CRYLCOAT® 4430-0 (50/50)	50

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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