

General Description

CRYLCOAT® 4823-0 is a superdurable hydroxyl functional polyester resin for use with blocked polyisocyanates or uretdiones in the production of powder coatings. Coatings based on CRYLCOAT® 4823-0 exhibit good flow, mechanical, chemical and weathering resistance.

(Formerly CRYLCOAT® E 02123)

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	1750 - 2100
Color, b-value	Max. 10
Hydroxyl value (mg KOH/g)	75 - 95
Acid value (mg KOH/g)	Max. 10

Other Properties

	Typical value
Glass transition (°C)	Approx. 57

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4823-0	45.2
Vestagon® B 1530	19.3
Barium sulfate	26.5
RAL 8014	3.5
ADDITOL® P 824	1.1
Benzoin	0.5

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	65 to 80 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on chromated Al panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200 °C metal temperature

Film Properties

Test	Result
Gloss @ 20° / 60° (%)	79 / 93

Shelf Life

Under normal storage conditions (≤30°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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