

General Description

CRYLCOAT® 4874-0 is a hydroxyl functional superdurable polyester resin for use with blocked polyisocyanates or uretdiones preferably as high functional component in one shot matte polyurethane coatings. Correspondent coatings show good chemical resistance and outdoor durability.

(Formerly CRYLCOAT® E 04174)

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	2500 - 4000
Color, b-value	Max. 10
Hydroxyl value (mg KOH/g)	270 - 320
Acid value (mg KOH/g)	6 - 14

Other Properties

	Typical value
Glass transition (°C)	Approx. 52

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4874-0	16.0
CRYLCOAT® 4891-0	43.7
Crelan® EF 403	35.0
RAL 8014	3.5
MODAFLOW® Powder 6000	1.3
Benzoïn	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 @ 60° (%)	Approx. 8

Shelf Life

Under normal storage conditions (≤25°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.

January 2021 – Supersedes previous versions