

General Description

SYNTHACRYL® 710 is a glycidyl functional polyacrylic resin designed as matting hardener for carboxyl functional polyester resins. Coatings based on carboxylic polyesters such as CRYLCOAT® 2630-2 cured with SYNTHACRYL® 710 and Primid® XL 552 produce outstandingly smooth, dead matte finishes.

Acrylic Hardener

Preliminary Technical Data Sheet

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	18000-30000
Color, b-value	Max. 10
Epoxy equivalent weight (g/eq)	580-645

Other Properties

	Typical value
Glass transition (°C)	Approx. 52

Starting Formulation

Component	Weight (%)
SYNTHACRYL® 710	19.0
CRYLCOAT® 2630-2	53.7
Primid® XL 552	1.6
Titanium dioxide	24.4
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	80 to 105 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	15 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	5
Reverse Impact (kg cm or in-lb)	≥ 140

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.

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