

General Description

CRYLCOAT® 2478-1 is a reactive carboxyl functional polyester resin for use with 7% TGIC or 5% HAA in the production of architectural powder coatings. Formulations based on CRYLCOAT® 2478-1 exhibit excellent outdoor durability, high flexibility and storage stability.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	4100-5400
Color, b-value	Max. 15
Acid value (mg KOH/g)	31-37

Other Properties

	Typical value
Glass transition (°C)	Approx. 64

Starting Formulation

Components	Weight(%)
Crylcoat 2478-1	605
TGIC	45
Carbon black	7
Barium Sulfate	322
Benzoin	3
Texture agent	2
Bentonite	6
PE wax	10

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on chromated Al/steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	<10
Direct/reverse impact on steel (kg. cm or in.lbs.)	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.