

General Description

UVECOAT® 2200 is an amorphous unsaturated polyester resin for use in clear and pigmented UV curable powder coatings. Formulations based on UVECOAT® 2200 exhibit excellent corrosion and outdoor weathering resistance.

Unsaturated UV Curable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	Approx. 4500
Color, b-value	Max. 20
Acid value (mg KOH/g)	Max. 2

Other Properties

	Typical value
Glass transition (°C)	Approx. 47

Starting Formulation

Component	Weight (%)
UVECOAT® 2200	75.0
Photoinitiators	2.5
Titanium dioxide	25.0
MODAFLOW® Powder 6000	1.0
Degassing Agent	0.5

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	70 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV Belt speed: 0.5-5 m/min
IR-UV oven	IR: 32 Kw/m ² UV: 80-160 W/cm

Film Properties

Test	Result
Corrosion Resistance (ASTM B117)	Pass 1000+ Hours

Shelf Life

Under normal storage conditions (≤25°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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