

General Description

UVECOAT® 2100 is an amorphous unsaturated polyester resin for use in UV curable powder coatings. The resin has been developed for application on metal substrates and can be used for clear as well as pigmented coatings. It provides good protection against corrosion of pre-treated substrates.

Unsaturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 5500
Color, b-value	Max. 20
Acid value (mg KOH/g)	Max. 3.5

Other Properties

	Typical value
Glass transition (°C)	Approx. 50

Starting Formulation

Component	Weight (%)
UVECOAT® 2100	71.3
Photoinitiators	2.4
Titanium dioxide	25.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

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/m² UV: 80-160 W/cm

Film Properties

Test	Result
Direct/reverse impact (kg.cm or in. lbs.)	160/160

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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