

General Description

UVECOAT® 9010 is a semi-crystalline unsaturated polyester resin for use in UV curable powder coatings. Used with amorphous resins from the UVECOAT® 2000 or 3000 range, UVECOAT® 9010 improves the smoothness and flexibility of the coating. UVECOAT® 9010 belongs to the ECOWISE™ CHOICE product range for the Industrial Wood market.

Unsaturated UV Curable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Color, b-value	Max. 20
Acid value (mg KOH/g)	Max. 3

Other Properties

	Typical value
Brookfield Viscosity @ 100 °C (mPa.s)	Approx. 350
Melting Temperature (°C)	Approx. 85

Starting Formulation

Component	Weight (%)
UVECOAT® 2100	66.3
UVECOAT® 9010	5.0
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 0.5 mm chromated Al 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
Flexibility (T-Bends)	0T

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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