

General Description

UVECOAT® 3003 is an amorphous unsaturated polyester resin for use in UV curable powder coatings. This resin has been developed for indoor applications on PVC flooring. Coatings based on UVECOAT® 3003 combines excellent scratch and chemical resistance with good flexibility.

Unsaturated UV Curable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	Approx. 3200
Color, b-value	Max. 15
Acid value (mg KOH/g)	<3

Other Properties

	Typical value
Glass transition (°C)	Approx. 49

Starting Formulation

Component	Weight (%)
UVECOAT® 3003	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 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
Adhesion	GT 0

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.

October 2021 – Supersedes previous versions