

Unsaturated Polyester Resin USP-2017



Product Description

Unsaturated polyester resin based on **Orthophthalic**

Features

Good hardness & good reactivity	Very good mechanical properties
Very good filler loading capacity	Good air drying properties

Application

Suitable for mastic stone and filling compounds
Suitable for sealants

Typical Properties of Liquid Resin

Styrene content (%)	34-36	ASTM D1259-06
Viscosity (mPas)	250-450	ASTM D2196
Acid value (mg KOH/g)	Max. 30	ASTM D1639-90
Color (Gardner)	Max.2	ASTM D1544-04
Density @ 25°C (g/cm ³)	1.09	ASTM D1298
Stability @ 25°C	6 months	

Curing Properties

100 g amine pre accelerated mastic + 2 g benzoyl peroxide paste 50%@ 25°C:

Gel time	5-10 min	ASTM D2471
Peak Temperature	120-130 °C	"

Physical Properties of Cured Resin

Tensile Strength (MPa)	Min. 40	ASTM D790
Tensile Modulus (MPa)	390	ASTM D790
Flexural Strength (MPa)	Min. 75	ASTM D790
Flexural Modulus (MPa)	1840	ASTM D790
HDT (°C)	40±5	ASTM D648
Water Absorption (%)	Max. 0.2%	ASTM D570
Hardness (Barcole)	Min. 30	ASTM D2583

Package & Storage details

Package Capacities	200 kg drum
Shelf Life	6 months
Storing Area Conditions	The product should be kept in dry and cool condition away from sources of heat, spark and ignition. The product should not be unsealed unless for consumption.

Remark

Never mix peroxide and accelerator.

Health and safety

Avoid skin and eye contact by wearing overalls, gloves, goggles and mask
Use the resin under well ventilated condition

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