

DESCRIPTION

Variopox Impregnating Resin is a two component epoxy system based on solvent free epoxy resins and polyamine adduct hardeners.

PRINCIPAL CHARACTERISTICS

- Suitable as general purpose epoxy system as adhesive, coating and laminating resin;
- In combination with twaron, glass fibre or carbon fibre suitable as laminating resin;
- Good resistance to various chemicals;
- Good resistance to immersion in (salt) water;
- Suitable as primer for EPS;
- May be recoated with IJmopox ZF primer, IJmopox HB coating, Variopox Rolcoating or Double Coat.

COLOURS AND GLOSS

Transparent - High gloss

BASIC PROPERTIES (AT 23 °C AND 50% R.H.)

Density	: approx. 1,1 g/cm ³ (mixed product)
Solid content	: approx. 100 % (volume)
Recommended d.f.t.	: depending on application
Dust dry after	: approx. 4 hours
Full cure after	: approx. 2 days, see additional information
Recoating interval	: min. 24 hours, see additional information max. unlimited, provided clean and dry
Shelf life	: separate components, stored cool and dry in original packaging, minimum 6 months
Flash point (DIN53213)	: base component >100 °C Hardener 112 °C

SPREADING RATE

Depending on application : approx. 2,0 - 4,0 m²/kg (approx. 1,8 - 3,6 m²/l)
The practical spreading rate depends on a number of variables, such as: shape and size of object to be painted, the condition and profile of the substrate, the method of application, climatologic conditions and skill of labour.

SUBSTRATE CONDITION AND TEMPERATURE

Wood	: clean and dry, free from any contamination and loose particles, moisture content maximum 12%, pre-treated with Variopox Injection resin and sanded with grit paper P120;
Other surfaces	: clean and dry, in good condition, free from any contamination and loose particles, sanded with grit paper P120-180;

During application and curing a minimum temperature of 15 °C is allowed. The temperature of the substrate should be minimum 3 °C above dew point.

INSTRUCTIONS FOR USE

Before use, mix base and hardener components thoroughly.

Mixing ratio	: 67,0 base : 33,0 hardener (by weight)
	64,0 base : 36,0 hardener (by volume)

Do not prepare more material than can be applied within the pot life of the mixture.

VARIOPOX IMPREGNATING RESIN

Induction time : none at 20 °C
 Pot life : 15 minutes at 25 °C
 20 minutes at 20 °C
 30 minutes at 15 °C

Application with:

	Brush/roller
Type thinner	n.a.
% of thinner	
Nozzle orifice	n.a.
Nozzle pressure	n.a.
Cleaning	Double Coat Degreaser

Do not mix Variopox Impregnating Resin with solvents.

ADDITIONAL INFORMATION

- Recoating and curing Variopox Impregnating Resin:

	15 °C	20 °C	15 °C
Minimum, with IJmopox or Variopox, after sanding with grit paper P120	36 hours	24 hours	24 hours
Minimum, with Double Coat, after sanding with grit paper P180	3 days	2 days	2 days
Minimum, with Double Coat Dubbel UV or Double Coat Karaat, after sanding with grit paper P180	14 days	14 days	14 days
Maximum, with IJmopox, Variopox or Double Coat, after sanding with grit paper P120-P180	unlimited	unlimited	unlimited
Fully cured after	4 days	2 days	2 days

- Viscosity

Component	Viscosity	Unit	Method
Variopox Impregnating resin base	900	mPa.s	DVII+ S2 20 rpm
Variopox Impregnating resin hardener	2,832	mPa.s	DVII+ S2 10 rpm
Variopox Impregnating resin set ¹	1,280	mPa.s	DVII+ S2 20 rpm

¹ Immediately after mixing base with hardener

- Mechanical properties:

Property	Value	Unit	Method
flexural strength	60	MPa	DIN 53452
deflection	2	mm	DIN 53452
drukvastheid	120	MPa	DIN 53454
E-modulus	3,500	MPa	DIN 53457
Tg temperature	42	°C	DIN 53458
elongation at break	2	%	DIN 53455
compressive strength	70	KJ/m ²	DIN 53453
tensile strength	30	MPa	DIN 53455

Samples according DIN 53451, dimensions 120 x 15 x 10 mm, measured after 7 days curing at 23 °C

- Pot life

Do not continue application when the pot life is about to end. As the reaction between base and hardener has progressed, a poor adhesion will be the result.

- Application of Variopox Impregnating Resin at lower temperatures:
Curing at temperatures lower than 15 °C will result in a sticky layer on top of the cured resin. This will negatively affect adhesion of following coatings.

SAFETY INFORMATION

See the corresponding Material Safety Data Sheet for detailed instructions on safety, disposal and health.

Date: May '17
322-99999

Disclaimer

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