

DESCRIPTION

Variopox Resin is a general purpose epoxy system based on solvent free epoxy resins and polyamine adduct hardeners.

PRINCIPAL CHARACTERISTICS

- Suitable as general purpose epoxy for the protection, bonding and reinforcement of various materials;
- May be used in combination with reinforcement materials such as twaron, glass fibre or carbon fibre;
- Good resistance to various chemicals;
- Good resistance to immersion in (salt) water;
- May be recoated with IJmopox ZF primer, IJmopox HB coating, Variopox Rolcoating or Double Coat;
- Available in easy to use dispenser.

COLOURS AND GLOSS

Transparent - High gloss

BASIS 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)
67,0 base : 33,0 hardener (by volume)

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

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

ADDITIONAL INFORMATION

- Recoating and curing Variopox:

	15 °C	20 °C	25 °C
Minimum, with epoxy, 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 Karaat, after sanding with grit paper P180	14 days	14 days	14 days
Maximum, with epoxy or Double Coat, after sanding with grit paper P120-P180	unlimited	unlimited	unlimited
Fully cured after	4 days	2 days	2 days

- 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.

- Mechanical properties

Property	Value	Unit	Test method
• Tensile strength	41	MPa	ISO 527-3
• Elongation at break	8	%	ISO 527-3
• HDT	42	°C	ISO 75-2
• Flexural strength	75	MPa	ISO 178
• Modulus of elasticity	2612	MPa	ISO 178

- Application of Variopox 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.

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Disclaimer

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