

DESCRIPTION

Variopox Topgel is a thixotropic paste based on solvent free epoxy resins.

PRINCIPAL CHARACTERISTICS

- Sealer for trowel floorings and stone carpets;
- Suitable as sealing compound for floorings such as epoxy stone carpets (but is not a waterproofing);
- Easy to apply using a roller or squeegee;
- UV stable when combined with Variopox Topgel hardener;
- Excellent water resistant.

COLOURS AND GLOSS

Transparent - Semi gloss

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

Density	:	approx. 1,1 g/cm ³
Solid content	:	approx. 100 % (volume)
Epoxy equivalent weight (E.E.W.)	:	approx. 196
Dust dry after	:	approx. 4 hours (when combined with Variopox Topgel hardener)
Resistant to foot traffic after	:	approx. 18 hours (when combined with Variopox Topgel hardener)
Full cure after	:	approx. 2 days (when combined with Variopox Topgel hardener)
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 24 months
Flash point (DIN53213)	:	base component >100 °C hardener component > 64 °C

SPREADING RATE

Depending on application : approx. 0,5 – 0,8 kg/m² (1,3 – 2,0 m²/kg)

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

All substrates : clean and dry, in good condition, free from any contamination, loose particles and other foreign matter, sanded with grit paper P60 – 80 and treated with Double Coat Degreaser.

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
Pot life : 10 minutes at 25 °C
20 minutes at 20 °C
30 minutes at 15 °C

Application with:

	Trowel, squeegee or roller
Type of thinner	n.a.
% of thinner	
Nozzle orifice	n.a.
Nozzle pressure	n.a.
Cleaning with	Double Coat Degreaser, Double Coat Brushthinner

Do not add solvents or thinners to Variopox Topgel.

ADDITIONAL INFORMATION

- Recoating and curing of Variopox Topgel

	15 °C	20 °C	25 °C
Minimum	36 hours	24 hours	24 hours
Maximum	unlimited	unlimited	unlimited
Full cure 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.
- Hardener
Variopox Topgel may be cured with common solvent free epoxy hardeners. Only in combination with Variopox Topgel hardener Variopox Topgel will be UV stable.
- Determination of the required quantity of hardener
Epoxy resins cure by chemical reaction with the hardener component. To ensure complete curing, the correct quantity of hardener should be added to the mixture of epoxy resin and Variopox Topgel. An incomplete curing may result in various film defects. The quantity of hardener may be calculated using the epoxy equivalent weight (E.E.W.) and the hardener equivalent weight (H.E.Q.). The ratio between both components is correct when the total quantity of epoxy equivalents is equal to the total quantity of hardener equivalents. The required quantity of hardener necessary for any amount of Variopox Topgel can be calculated with following formulation:

$$QTY_{hardener} = \frac{QTY_{Epoxy\ Gel} \times HEQ_{hardener}}{EEW_{Variopox\ Topgel}}$$

Whereby:

- QTY_{hardener} required quantity by weight of hardener;
- QTY_{Variopox Topgel} the quantity by weight of Variopox Topgel;
- HEQ_{hardener} equivalent weight of the hardener (this value may be obtained from the supplier of the hardener);
- EEW_{Variopox Topgel} the equivalent weight of the Variopox Topgel.

Example:

500 gram Variopox Topgel is cured with a hardener. According the technical information from the supplier of the hardener, the H.E.Q. is 120. The E.E.W. of Variopox Topgel is 196. The quantity of hardener required is 500 x 120 : 196 = 306 gram hardener.

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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