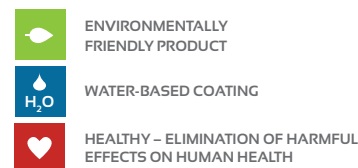


Vulmpropex



Primer

Product description:

Vulmpropex is a two-component water-based coating consisting of component A (aqueous dispersion, epoxy resin containing additives and fillers) and component B (polyamine hardener).

Use:

It is used as penetration before the use of Vulmpropox system products for coating of concrete surfaces at least 7 days old with a maximum moisture content of 35%, and for uninsulated surfaces. It is also used as a self-levelling material after addition of quartz sand. Coatings are very resilient, but also hard, resistant to abrasion, penetration of water, chemicals, oil products, detergents and solvents.

Benefits:

- resilient and hard surface
- good chemical and mechanical resistance
- resists penetration of liquids
- adhesive even to a slightly greasy surface
- possibility to achieve a greater thickness in one coating

Product data:

colour:	transparent coating with the possibility of a pigment addition as requested by a customer
appearance:	matte, semi-gloss
shelf life:	12 months in original packaging in dry conditions at the temperature 10 – 35 °C

Physical data:

binder content:	15%
solids content:	66,5 %
water content:	15 %
flow:	15,9 cm
hardness:	after 24 hours 60 Shore D 3 days 70 Shore D 7 days 78 Shore D 28 days 82 Shore D at a relative air humidity of 65 % and temperature of 20 °C
abrasion resistance:	156 md/1000 cycles
handling time:	45 minutes
density:	
component A:	1,45 g/ml
component B:	1,12 g/ml
component A + B:	1,39 g/ml

Processing temperature:

minimum temperature of the substrate: 5 °C
 maximum temperature of the substrate: 30 °C
 ideal temperature for processing: 20 °C
 maximum relative air humidity: 85 %

Instructions for use:

Impregnation:

Impregnation: The mixture of components A and B is in a ratio of 10 : 1 (by weight). Mixing of these reactive components takes 2 – 3 minutes, but ends after achieving a homogeneous mixture. Viscosity may be adjusted by the addition of water (from 20 to 30 %). The prepared material is applied by brush or roller, independently of the thickness of layer. The material should be applied within 45 minutes. After this time, it begins to solidify.

Self-levelling application:

Impregnate a dry or wet surface with **Vulmpropex** (instruction impregnation). After 2 – 5 hours we can apply a levelling material, which is prepared as impregnation, but we also add silica sand with a fraction from 100 µm to 1500 µm, maximum 3 kg to one kilogram of the prepared **Vulmpropex**. Thus prepared material can be used to perform fettling and to repair cracks and other surface irregularities, but if we pour the material onto the desired location in the required thickness and spread it with a smooth notched trowel, we thoroughly deaerate it by a vent roller. The maximum thickness of the layer is not limited. The material has excellent flow and levelling properties.

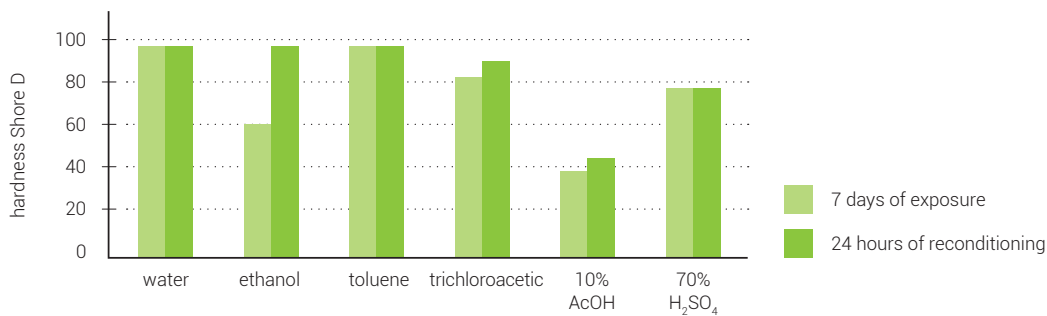
Substrate:

The substrate must be sufficiently coherent and supporting. Surface must be flat, solid, free of dirt and loose particles. It may contain max. of 35% humidity, which should be measured by a hygrometer. The coating can be applied on slightly oily surfaces. Surface must be dusted and without rough particles, preferably cleaned by pressurized water. Degreasing is not necessary.

Resistance:

- withstands high mechanical loads
- resistant to chemicals, solvents, detergents and cleaners
- resistant to heat of up to 140 °C (short-term), does not change characteristics at 100 °C

Chemical resistance:



Theoretical capacity:

penetration: 3,3 – 6,7 m²/kg pure coating according to absorption of the substrate
 self-levelling (quartz sand): pas necessary in the ratio of 1 kg (vulmpropex) : 1.5 kg (silica sand); 1 m² prepare from 1.2 kg of a thereby mixed paint when reaching 1 mm layer depending on the sand grading and surface

Time data for application:

processability of the mixed material:	approx. 45 minutes
dry to touch and re-coating interval:	approx. 2 hours
walkable:	24 hours
fully loadable:	65 hours
at a relative air humidity of 65 % and temperature of 20 °C	

Cleaning of tools:

Immediately after use, with water.

Safety:

Vulmpropex – when handling, proceed in accordance with the general safety measures, follow the safety instructions on the packaging labels and on safety data sheets. Data, specifications, directions and recommendations given in this technical data sheet are based on experience gained in modeling of supposed ways of applications, or under specially defined conditions. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by the user. The manufacturer and distributor are not responsible for the results achieved, loss, direct or consequential damages arising from failure to comply with the recommended use of the product, which go beyond the conditions herein.

Tests:

Property	Declared value or class	Number of test report and laboratory reference
Reaction to fire (NO)	class F – for all screeds based on epoxy resins	declaration
Abrasion resistance according to BCA (NO) [mm]	class AR 0,5 (depth of the groove max. 10 µm)	Test Report no. 90-13-0014, TSÚS branch Tatranská. Štrba 17.01.2013
Adhesion (NO) [MPa]	class B2,0 (adhesion min. 2,0 MPa)	Test Report no. 90-13-0014, TSÚS branch Tatranská. Štrba 17.01.2013
Impact resistance (NO) [Nm]	IR min. 10Nm	Test Report no. 90-13-0014, TSÚS branch Tatranská. Štrba 17.01.2013
Compressive strength (NO) [MPa]	C20 (compressive strength min. 40 MPa)	Test Report no. 90-13-0014, TSÚS branch Tatranská. Štrba 17.01.2013
Tensile strength in bending (NO) [MPa]	class F7 (tensile strength in bending min. 7 MPa)	Test Report no. 90-13-0014, TSÚS branch Tatranská. Štrba 17.01.2013