

MINPUR[®] EP-W 15 Top

Colourless 2-K epoxy resin emulsion sealant and primer for satin-finished surfaces

Application and properties

Water-based 2-K epoxy resin sealant, containing <1% solvent from additives to improve quality. EP-W 15 Top is used to impregnate and seal mineral substrates in a colourless, matt finish. The sealant (primer) provides for even, satin-finished surfaces that give the coatings an even, visually appealing appearance. "Mirror effects" of glossy coatings as a result of the light dispersion of the surface are reduced significantly. EP-W 15 Top can replace solvent-containing sealants (primers) in a number of areas, making it an easy-to-use, environmentally-friendly alternative. It is applied using a long-pile roller in a crosswise movement. As it dries uniformly, this product can achieve very even surfaces. EP-W 15 Top features good adhesion on different substrates. Therefore, after checking the adhesion, the sealant (primer) can also be used for old epoxy or polyurethane coatings tec.

EP-W 15 Top

Ratio of mixture	Parts by weight	A : B = 2 : 3		
Use	Temperature	15°C	20°C	30°C
	Time	approx. 30 min.	approx. 20 min.	approx. 15 min.
Working temperature		At minimum 15°C (ambient and ground temperature)		
Hardening	Temperature	15°C	20°C	30°C
	Time	24 - 36 hrs.	18 - 24 hrs.	14 - 18 hrs.
Mechanical through-hardening		2 - 3 days until mechanical stress resistance at 20° C		
Chemical through-hardening		7 days until chemical stress resistance at 20° C		
Consumption per work step		1st work step: 0.14 – 0.17 kg/m ² per application		
		2nd work step: 0.10 – 0.15 kg/m ² per application		
Layers		Generally one application as deep impregnation and one application as sealant.		
Colour when used		Whitish (milky)		
Packaging		4 kg component A and 6 kg component B		
Storage life		12 months (in original container) – store in a frost-free place!		

Product characteristics

- environmentally-friendly, solvent-free (<1%)
- low-odour
- easy to use
- produces even surfaces
- reduces the degree of gloss
- provides coatings with beautiful surfaces
- very economical due to low consumption

Area of application

- EP-W 15 Top as a clear matt sealant (primer) of high-quality floors, or pre-treated industrial floors, in order to evenly dull the visual appearance.
- EP-W 15 Top as a clear matt sealant (primer) of high-quality decorative and industrial coatings.
- EP-W 15 Top as a clear matt sealant (primer) on water vapour-permeable coatings.
- EP-W 15 Top as a finish for coatings made of tempered cement as well as whetted concrete surfaces, in two applications.
- EP-W 15 Top can also be used on old substrates made of epoxy and polyurethane coatings.

Substrate

The substrate must be clean and free from any soiling. Generally, when building up a coating, EP-W 15 Top is first applied as a primer and subsequently as a sealant. Care must be taken to ensure that the preceding primer is not soiled. The optimal time for applying the sealant is reached when the preceding EP primer has hardened sufficiently to form a durable film, but has not yet through-hardened. Please note: Prior to sealing, the primer must be whetted slightly and subsequently cleaned. With conventional systems, this is the case after a minimum of 12 and a maximum of 24 hours. Due to the good adhesion of the material, even hardened floors can be sealed. To do so, the surface must be thoroughly cleaned and well-whetted.

If old surfaces are sealed, preliminary tests to ensure adhesion are required.

Mixing

A kit containing multiple containers includes all factory-weighed materials to ensure preparation is mixed using exact proportions. The capacity of the container holding component B is sufficient to hold the total quantity of both containers (A+B). Stir component A well and empty it completely into the container with the hardener (container B). **Rinse the container of component A with water – to the amount of 10% of the total volume of the preparation – and empty it into the hardener container as well.** If partial quantities are removed, they must be weighed at the correct mixing ratio. Mixing is done by machine, using a slow-running stirrer (200 - 400 r/min) for about 2- 3 minutes, until a homogenous, streak-free consistency is achieved.

In order to avoid mixing errors, we recommend that you **pour** the resin/hardener/water mixture into a clean container, then **sieve** it and briefly **mix** it once more ("repotting").

Please note: The **working life** must **not exceed 30 minutes**.

Caution: A slight thickening indicates the end of the pot life. In the case of a longer working life, colour differences or an irregular visual appearance may occur.

Use

As with all reaction resin systems, this product is to be used immediately after mixing. Apply with a lint-free mohair or velour roller. Generally, the surface should be divided into work sections in advance so as to avoid multiple applications and huge overlap. For larger surfaces, we recommend that two or three people share the work. Ideally, one or several person(s) apply the material in one direction, while another person spreads the freshly applied sealing material crosswise (at a 90° angle). On larger areas, a 50 cm wide roller should be used. The spreading roller should be saturated/moistened with material; it should only be used for spreading the impregnation material and under no circumstances for applying it. The product should be applied in a co-ordinated cycle; do not leave crosswise spreading of the material too late. Always spread the material while it is still wet and ensure that it is spread optimally when using the roller. Avoid pooling as layers that are too thick may result in clouding or blushing. When sealing, ensure that the surroundings are clean. Use suitable rollers and make sure your footwear is clean when stepping on the surface. If required, wear shoe covers if you have to step on already treated surfaces. During the hardening process, maintain the recommended drying conditions! Ensure that there is sufficient air circulation (no closed rooms). The ground and air temperature must not be below 15° C and the humidity should not exceed 70 %, otherwise staining may occur. The ambient temperature should be higher than the ground temperature to ensure that it does not interfere with the hardening. If the temperature drops below the dew point, the floor cannot dry properly, and hardening errors and staining appear. Do not expose the floor to any water or chemicals and do not place any objects on it for the first seven days. The specified hardening times refer to a temperature of 20° C; at lower temperatures the working life and hardening times increase, while at higher temperatures they decrease. If the conditions for use are not met, deviations in the technical properties of the final product as described, may occur.

<p>Cleaning</p> <p>Use water to remove any fresh impurities and to clean the tools immediately after use. Dried-on material can only be removed mechanically or using thinner. Completely through-hardened material can only be removed mechanically.</p>	<p>Storage / transportation</p> <p>Store in a dry, frost-free place. Ideal storage temperature 10° - 20° C. Prior to application, bring to a suitable working temperature. Once opened, seal container tightly and use as soon as possible. This product is subject to the Ordinance on Hazardous Substances (<i>Gefahrstoffverordnung</i>) and the Ordinance on Industrial Safety and Health (<i>Betriebssicherheitsverordnung</i>). The necessary advice/information is contained in the safety data sheet. Please note the information on the container label!</p>
--	--

Technical data***EP-W 15 Top**

Viscosity of component A+B Diluted with 10% water	approx. 400 mPas < 200 mPas
Solids content	>40 %
Flash point	non-flammable
Density of component A+B	approx. 1.07 kg/l
Gloss	< 10 (85°)

Our information is based on our experience and developments. While we warrant the flawless quality of our products, we do not accept any liability for the success of the work carried out by you as we do not have any influence on the use and conditions for use. We recommend that you set up test areas in individual cases. This data sheet supersedes the previous document.

January 2018