

EPOSAN

2K epoxy moisture barrier

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VFL
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Properties

EPOSAN is a solvent-free and pore-closing 2-component epoxy resin primer. EPOSAN displaces water from the capillary structure in the surface zone of the concrete and acts as a barrier against rising damp.

Field of application

EPOSAN 2K epoxy moisture barrier is used as a special primer for previously cleaned concrete substrates as well as a rigid «subsequent waterproofing» against rising damp on cement-bound surfaces, which are then treated with a classic floor painting or coating system. Preliminary tests are advisable, please contact our technical service department for this purpose.

Pretreatment

The substrate must be freed from all adhesion-reducing layers and impurities. For example, cement residue, sintered layers, liquid foils (curing), etc. must be completely removed by blasting, grinding (with NEUTRASOL cement floor cleaner) or other suitable means. Old coatings must be cleaned (GEIGER SE-1 leachers / PUROL active cleaner concentrate) and tested for adhesion. Remove poorly adhering old coats (adhesive tension test, cross-cut) mechanically. Oil-contaminated substrates must be repaired with the EPOTEX system.

Processing

EPOSAN has a low-viscosity consistency after mixing the stock and hardener. A good, rational incorporation can be carried out with a roller, brush or surface spatula. Ideal processing conditions are a minimum of 15 to maximum 25 °Celsius and a material temperature of 15–18 °C. At temperatures above 25 °C, care must be taken to ensure that the application is carried out at a constant or decreasing temperature, otherwise there is a risk of bubble formation. EPOSAN is applied thickly to the cleaned substrate in one application.

After application, EPOSAN must be protected from moisture for 12 to 24 hours. Exposure to moisture during drying causes the surface to turn white or sticky and leads to disturbances during curing and problems with intermediate adhesion. High temperatures, direct sunlight or draughts impair penetration into the substrate.

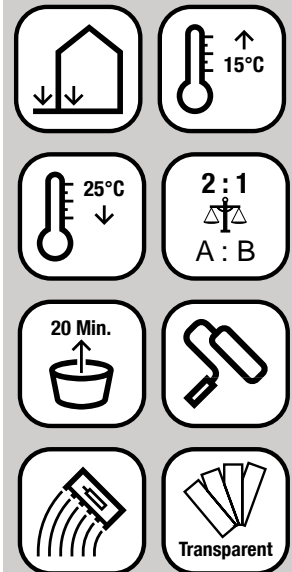
If for certain applications a quartz sprinkling is necessary, EPOSAN is applied a second time after a drying phase of 12 to maximum 24 hours and sprinkled with CRESTONE (grain size 0,1–0,6 or 0,3–0,9mm). After curing, the unbound quartz sand must be removed before a subsequent paint or coating system is applied. To form fillets, we recommend the following mixing ratio: Mix 1 kg Component A with 2 kg CRESTONE quartz sand 0,1–0,6mm plus 60g CREATHIX adjusting devices homogeneously. Then add the hardener and mix thoroughly for 2–3 minutes. The whole mixture is then repotted and stirred well again.

System structure

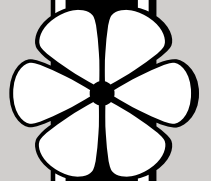
EPOSAN can be reworked with the coatings (EPODIT, DURODIT) or the paint systems (EPOLUX, DUROPON, DURODUR, BLEND[®]-POX, etc.). Reworking should be carried out within 48 hours (depending on application thickness and temperature), otherwise sanding is required.

Drying

- Firm to the touch after 4–6 hours
- Can be reworked within 12 to 24 hours (depending on the temperature, application quantity, humidity and air circulation)



Farben



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High quality - Top finish

Dilution	Use EPOSAN undiluted.
Extensiveness	Depending on the condition of the substrate, application method and application temperature, a material consumption of at least 250 to 500g per m ² must be expected. Consumption for quartz sprinkling CRESTONE 1 to 1,5 kg per m ² .
Mixing ratio	5 parts by weight component A and 2,5 parts by weight component B (5 : 2,5).
Pot life	After mixing the A and B components, EPOSAN can be processed for about 20 minutes at 20 °C. Finished mixed material must be emptied on the surface to be treated within minutes to prevent an accelerated reaction (heat development) in the boiler. Only mixing units which can be processed within a short time should be used. Mixed material that becomes musty in the processing phase may no longer be used. Mixed residual inks must never be stored in a closed container until they have completely hardened. The product continues to react and will put the container under pressure and may cause it to burst.
Application	Roller, brush, scraper or surface spatula. In order to achieve optimum results, it is very important to use the right tools – see KNUCHEL GUIDE on brush and roller qualities. You will find this guide both in the catalogue and on the homepage as an attachment to this product.
Cleaning	Clean tools immediately after use with epoxy or MEK thinner. Cured material can only be removed mechanically. Thoroughly clean skin areas that have come into contact with paint with warm soapy water.
Delivery form	Packages (including hardener) of 7,5 kg.
Shelf life	Components A: EPOSAN can be stored for at least 12 months in the well closed original container. Store in a cool and dry place. Components B: The hardener can be stored for at least 12 months in well-sealed original containers. Store in a cool but frost-free place.
Viscosity	Components A: 400–600 mPa.s Components B: 800–1000 mPa.s
Density	Components A: 1,12 ± 0,05 g/cm ³ Components B: 1,02 ± 0,05 g/cm ³
Solid content	Components A: 100 % Components B: 100 %
Binder base	Components A: Modified epoxy resins Components B: Amine hardeners (article 914)
Gloss level	Gloss
Colours	Yellowish
Registration	Components A: CPID 000000 Components B: CPID 000000 (article 914)
Classification	For information on chemical properties and hazards as well as regulations regarding transport, processing, storage, disposal, etc., please refer to the safety data sheet.

Note

This leaflet is only intended as a reference and non-binding advice. The processing must be adapted to the corresponding conditions. In special cases we recommend to contact our technical service. However, all data and information on the suitability and application of the delivered products do not exempt the processor from carrying out his own tests and trials. A claim for damages for omitted, incomplete or incorrect information is excluded. This applies in particular if thinners or hardeners and other products are used in the paint build-up system.

Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.