

Coating technology

EPOXY IMPREGNATING RESIN IH 16

- > solvent-free
- > low viscosity
- > solidifying



Product description

Solvent-free, transparent, unfilled epoxy resin hardener system in two components for substrate preparation, especially for solidifying unstable, brittle, low strength mineral substrates and for crack repair. Indoors and outdoors as solidifying impregnation of strongly absorbent mineral substrates as well as for crack injection for crack widths of up to 0.3 mm.

Delivery format

Container	Outer packaging	Pallet
7 KG / BLE	-	42 BLE
2 KG / BKA	-	99 BKA

Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Recommended tools

Slow-rotating electric agitator, suitable mixing vessel, smoothing trowel, spatula, roller, rubber lip, hand-lever press, injection devices.

Mixing

Component A and component B are basically delivered in the relevant correct mixing ratios. A scale must be used to determine partial quantities. Thoroughly mix component A via a slow-rotating electric agitator (approx. 300 rpm), then add component B and continue mixing until a homogeneous, lump-free consistency is reached (approx. 2-3 minutes). To prevent mixing and/or proportioning mistakes, the mixed material must be decanted into a clean, dry container (re-potted) and stirred thoroughly again.

Coating technology

Processing

The mixed impregnation is poured onto the substrate and applied via flooding with a rubber broom and rolled. With injection process inject with suitable device. Unmixed residual quantities are to be mixed with quartz sand in original container or in a metal container without a cover and allowed to harden in the open. Through the addition of quartz sand, the heat development is contained and any possible development of smoke is reduced. The original container is a metal container with which there is no fire risk from the product if these specifications are heeded.

Technical data

Density	Comp. A + B approx. 1.05 g/cm ³
Viscosity	DIN 4 beaker: comp. A + B approx. 22 sec.
Colour	transparent
Consumption	approx. 0.3 - 0.7 kg/m ² depending on absorbency
Mixing ratio	A : B = 3,5 : 1
Pot life	approx. 25 min.
Recoatibility	after approx. 12 hrs

Test certificates

Tested in accordance with (standard, classification ...)

EN 1504-2:2005

Substrate

Suitable substrates

Requirements for mineral substrates:

The substrate must be dry, stable and free of separating, intrinsic and dissimilar substances, pursuant to the IBF Directive - industrial substrates of reaction resin. Residual moisture max. 4 % by weight, measured with the CM device. Substrate temperature greater than 12 °C and 3 K above dew point; adhesive tensile strength on average 1.5 N/mm²; adhesive tensile strength smallest single value 1.1 N/mm²

Product and processing instructions

Material information:

- If processing outside the ideal temperature and/or humidity range the material properties could change markedly.
- Bring the materials to the proper temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The colour formation is significantly impacted by the environmental conditions.

Environmental information:

- Do not process at temperatures below +5 °C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is 40% to 60%.
- Increased air humidity and/or lower temperatures may prolong the drying, setting and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!

30110, EPOXY IMPREGNATING RESIN IH 16, valid from: 20.06.2024, Nicole Zeiml, Page 2

Coating technology

- Protect against direct sunlight, wind and weather!
- Protect adjacent components!

Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.
- Please heed the product data sheets of all MUREXIN products used in the process.
- Keep a genuine original container of the respective batch for later repair work.

The information provided reflects average values that were obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

Safety instructions

Please refer to safety data sheet for product-specific information with regard to composition, handling, cleaning, corresponding actions and disposal.

Limiting and monitoring exposure

Personal protective equipment:

General protection and hygiene measures:

- Common safety measures for handling chemicals are to be observed.
- Keep away from foodstuffs, beverages and feedstuffs.
- Take off contaminated, impregnated clothing immediately.
- Wash your hands before taking breaks and when finishing work.
- Do not inhale gases/vapours/aerosols.
- Avoid contact with the eyes and skin.

Breathing protection:

- Use a breathing filter device for short term or minor exposure; for more intensive or longer exposure, use a self-contained breathing apparatus.

Hand protection: protective gloves.

Glove material

- Fluorinated rubber (Viton)
- Nitrile rubber
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to manufacturer.

Penetration time of the glove material

- The precise penetration time is to be found out from the protective glove manufacturer and complied with.

Eye protection: tightly sealed protective goggles.

Body protection: protective clothing.

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Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.

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