

UZIN Epoxidicht

Epoxy-resin sealer for applying flexible seal-coats in conjunction with interior and exterior ceramic wall and floor tiling

Description:

Highly flexible, 2-component epoxy-resin for applying bonded seal-coats onto surfaces heavily exposed to water and chemicals prior to fixing large and small format ceramic tiles, especially on interior and exterior flooring.

Especially suitable:

- ▶ As an alternative sealer against penetrating surface water in wet areas and areas with high exposure to chemicals
- ▶ For substrates of adequate strength, such as screeds and heated screeds, concrete, brickwork, gas concrete, plaster (MG P II & P III), gypsum-based substrates and dry construction boards
- ▶ As a bonded seal system in exterior locations such as balconies and terraces
- ▶ As a bonded seal system in swimming pools and surrounding areas
- ▶ On dense surfaces such as metals, glass and plastics

Suitable as a sealer in heavily exposed areas (Moisture Exposure Classification IV) in accordance with the ZDB data sheet.



Product Properties / Benefits:

Highly flexible, 2-component epoxy-resin produced by mixing Resin A and Hardener B. Easy to apply and rapid setting with excellent resistance to the effects of weather, water, chemicals, acids and mechanical wear.

Composition: Polyamine cross-linking epoxy-resin.

- ▶ Roller or brush application
- ▶ Bridges cracks and sets stress-free
- ▶ Chemical resistant
- ▶ Water impermeable and freeze-thaw resistant
- ▶ For heaviest wear areas
- ▶ Official test certification

Technical Data:

Packaging:	metal combi-can
Packsize:	5 kg, 10 kg
Shelf life:	min. 12 months
Colour:	off white
Hazard characteristics:	see "Protection of the Workplace and Environment"
Mixing ratio:	A : B = 3 : 1 parts by weight
Consumption:	2.5 kg / m ²
Working temperature:	10 °C to 25 °C / 50 – 77 °F
Working time:	30 – 40 minutes*
Set to traffic / covering:	after approx. 1 day*
Water resistant:	after approx. 7 days*

* Under normal conditions at 20 °C / 68 °F.

Substrate Preparation:

The substrate must be level, sound, dry, free from cracks and clean. Completely remove dirt, separating agents, paints and coatings. Fill and smooth rough and uneven surfaces with UZIN levelling compound. Prime mineral and gypsum-based surfaces with epoxy sealer-primer UZIN PE 460 and continue within 3 days with UZIN Epoxiflex Plus. In the case of longer waiting times, prime with epoxy sealer-primer UZIN PE 460 and broadcast with UZIN Quartz Sand to form a dry excess. Allow the primer to dry completely (scratch test). Refer to the Product Information Sheets for the products used.

Application:

- Before use, allow the combi-can to come to room temperature. Punch several times through the plastic plug and the floor of the upper container (Hardener B), e.g. with a long, pointed chisel. Allow the hardener to drain completely into the lower container (Resin A). Remove the empty upper container and thoroughly mix the combined components with suitable mixing equipment (spiral, propeller or basket mixer or similar). Decant the mixed material into a second container and mix thoroughly once again.
- 1st. seal-coat: before surface sealing, bond UZIN Seal-Tape/Collars with UZIN Epoxidicht to corners and joints, edges, ducts and connections, floor drains, etc. Evenly apply mixed material onto the primed surface using a new S2 notched blade held at a 70 – 90° angle. The material will normally flow on its own to provide a sealed surface. Otherwise, obliterate the ridge-marks with a foam roller.
2nd. seal-coat: within 24 hours, apply at least one further seal-coat (as described above). For colour differentiation, mix the UZIN Epoxidicht with 0.1 % UZIN Colorant.
- Roller and brush application: for these application methods, the minimum dry coat thickness must be ensured by selecting the appropriate quantity with each coat applied.
- Cleaning: clean tools immediately after use with UZIN VE 124. Hardened material can only be cleaned by mechanical means.

Consumption:

Application	Trowel Notch S2	Coat Thickness in mm	Coverage per 10 kg can
1 st seal-coat	1.24 kg / m ²	0.75 mm	8.0 m ²
2 nd seal-coat	1.24 kg / m ²	0.75 mm	8.0 m ²
Total approx.	2.5 kg / m ²	1.5 mm	4.0 m ²

Surface levels and condition affect the consumption.

Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool, dry conditions. In cold conditions, the material develops a higher viscosity.
- ▶ Optimum working conditions are 20 – 25 °C/68 – 77 °F. Low temperatures deteriorate the working consistency and delay setting. High temperatures shorten the pot-life and setting time. Cannot be used at below 10 °C/50 °F.
- ▶ To ensure suitability in special applications, please request our list of Resistant Materials.
- ▶ For usage temperatures above 65 °C/149 °F, obtain technical advice.
- ▶ For surfaces made of diverse plastics, alloys and surfaces that are difficult to assess, it is recommended to conduct a test.
- ▶ Waiting time between coats must be a maximum of 24 hours. Apply epoxy-resin adhesive not later than 72 hours after applying the seal-coat.
- ▶ Leave tiling until the final seal-coat is fully cured. On reaction resin seal-coats, use only reaction resin systems, otherwise obtain technical advice.
- ▶ For large and small format tiling work into bonded seal-coats, ensure a solid bed installation and use the appropriate application method.
- ▶ A fully functional seal system is only achieved with a minimum of 2 coats with a total dry coat thickness of at least 1.5 mm at any point.
- ▶ On walls, the correct coat thickness is produced with the appropriate number of brush or roller coats.
- ▶ UZIN Epoxidicht is not a substitute for a structural seal in accordance with DIN 18 195. When sealing structures against moisture, refer to the installation guidelines in DIN 18 195 Part 4.
- ▶ Applicable and especially recommended are the publications of the Professional Association of German Tiling Trades in the ZDB, etc. "Notes for the installation of seal-coats in conjunction with interior and exterior, large and small format tile coverings", "Large and small format floor tiling outside of buildings", as well as construction trade sealing in accordance with DIN 18 195. In addition, the guidelines of the AGI "Requirements for sealed surfaces/tile coverings against chemical attack", and the BEB work-sheet KH-6.

Protection of the Workplace and the Environment:

Solvent free. Non flammable. Comp. A: Irritant. Contains epoxy resin. Comp. B: Corrosive. Contains amine hardener. Both components: May cause irritations to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk.

Disposal:

Do not allow into drains, water courses or land-fill. Empty, scraped-out and drip-free metal containers are recyclable. Containers with unhardened residues and collected, unhardened product residues are Special Waste. Mixed and hardened product residues, as well as containers with mixed and hardened residues are Construction Waste.