

2-Component Epoxy Scratch-Coat

# UZIN EP 12

Epoxy resin scratch-coat as a primer and smoothing agent on interior mineral substrates

**Description:**

UZIN EP 12 is a solvent-free epoxy resin primer with quartz flour fillers for use on absorbent, mineral surfaces. Especially suitable as a sealer-primer and smoothing agent on shot-blasted or ground, cement-based surfaces, e.g. cement screeds, concrete, etc. prior to application of UZIN EP 23 and UZIN EP 23 AS Epoxy Floor-Seals.

Especially suitable:

- ▶ for use on mineral substrates, including shot-blasted or ground surfaces, e.g. cement, calcium sulphate, magnesia and stone-wood screeds, concrete, etc.
- ▶ as an epoxy smoothing compound and basic epoxy coating at 1 – 2 mm thickness after priming with UZIN PE 460 2-component epoxy primer-sealer

Suitable for use on warm water underfloor heating systems.

**Product Properties / Benefits:**

Light grey, 2-component, epoxy resin primer produced by mixing Resin A and Hardener B. Extremely resistant to mechanical loading and abrasion, very resistant to water, benzene, oils, detergents and chemicals.

- ▶ Low odour
- ▶ Good filling consistency
- ▶ Impact- and wear- resistant
- ▶ Chemical resistant
- ▶ Solvent-free

**Note:** When using, please take into account that UZIN EP 12 becomes chalky when exposed to strong light.



**Technical Data:**

Packaging:	metal combi-can
Packsize (A + B):	10 kg
Shelf life:	min. 12 months
Colour:	agate grey
Hazard features:	see "Protection of the Workplace and Environment"
Mixing ratio:	A : B = 8.5 : 1.5 parts by weight
Specific density (A + B):	1.09 kg / litre
Working temperature:	min. 10 °C at floor level do not apply at below 10 °C the product will not set
Pot life:	approx. 20 minutes*
Consumption**:	approx. 500 – 1300 g / m <sup>2</sup>
Touch dry:	after 8 – 10 hours*
Set to foot traffic:	after 12 – 16 hours*
Further applications:	after 12 – 16 hours* apply the next coat within 24 hours
Final strength:	after 5 – 7 days*

\* At 20 °C and 65 % relative humidity.

\*\* Standard values for which no liability can be accepted as the consumption is highly dependent on the surface condition.

## Subfloor Preparation:

The substrate must be resistant to compressive and tensile forces, surface dry, clean and free from materials that would impair adhesion. It must be protected from rising moisture and all necessary damp-proof membranes must be professionally incorporated.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. According to substrate condition, the upper surface must be keyed. Soft or weakly bonded areas, e.g. soft screeds, hard sinter, separating agents, loose residues of adhesive, levelling compounds, coverings or paints, must be completely removed, e.g. by brushing, abrading, grinding or shot-blasting. Then vacuum thoroughly.

## Application:

1. 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. using a long screwdriver. Allow the hardener to drain completely into the lower container (Resin A). Remove the empty upper container and thoroughly blend the components with suitable mixing. When mixing, ensure that the material around the floor and walls of the bucket is incorporated and well mixed.
2. Immediately pour out the scratch-coat onto the prepared substrate; as a scratch-coat, spread evenly with a smoothing trowel to form a fully sealed coat, as an epoxy smoothing compound (for which priming with UZIN PE 460 2-component epoxy primer is always required), apply with the UZIN Rake (notch R1 for approx. 1 mm and R2 for approx. 2 mm thickness). Observe the limited pot life.
3. Clean tools immediately after use with UZIN VE 124. Hardened material can only be removed by mechanical means.
4. Setting time: set to foot traffic and ready for second coat, or application of epoxy seal, after 12 – 16 hours.

## Consumption:

According to surface absorbency and condition, consumption as a scratch-coat: 500 – 1300 g/m<sup>2</sup> per coat. As an epoxy smoothing compound: 1300 g/m<sup>2</sup> per mm of thickness.

## Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool, dry conditions. In cold conditions, the material can thicken and become stringy.
- ▶ Minimum floor temperature 10 °C and 3 °C above dew-point. Optimum application temperature is 20 °C. Maximum relative humidity (RH) is 85 %.
- ▶ Highly absorbent or rough surfaces may require the application of a second scratch-coat of UZIN EP 12, or the application of UZIN PE 460 2-component epoxy primer in preparation for the epoxy seal-coat.
- ▶ Use neutral or slightly alkaline maintenance and cleaning materials.
- ▶ Substrate residual moisture content must not exceed 2.0 CM-%; refer to VOB Part C, DIN 18 363 Para. 3. For residual moisture from 2.0 to 5.0 CM-%, prepare with UZIN PE 460 2-component epoxy primer or, for > 5.0 CM-%, with UZIN PE 480 Epoxy DPM, and obtain technical advice.
- ▶ Concrete substrates must be at least 28 days old.
- ▶ In accordance with DIN 1048, Part 2, the surface adhesive tensile strength should average at least 1.5 N/mm<sup>2</sup>. The minimum single value must not be below 1.0 N/mm<sup>2</sup>. In areas of heavy loading, e.g. for fork-lift truck traffic, the average value should be 2.0 N/mm<sup>2</sup> and the minimum single value should be at least 1.5 N/mm<sup>2</sup>.

## 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 landfill. Empty, scraped out and drip-free metal containers are recyclable [Interseroh]. Containers with unhardened residues, as well as collected, unhardened product residues, are Special Waste. Mixed and hardened product residues, as well as containers with mixed, hardened residues are Construction Waste.