

Floor Seal

# UZIN EP 23

Epoxy resin floor seal for interior mineral surfaces

## Description:

UZIN EP 23 Floor Seal is a solvent-free, epoxy resin floor seal for 0.15 – 0.25 mm application. Gives unattractive or dusting, new or old floors a visually appealing, resistant and easy-care surface.

Especially suitable as a durable, seamless and pigmented finish on cement-based substrates, e.g. cement screeds, concrete and the cement levelling compounds UZIN NC 170 LevelStar and UZIN NC 172 BiTurbo in:

- ▶ storage rooms and cellars
- ▶ garages, etc.

## Product Properties / Benefits:

Pigmented, 2-component, epoxy resin seal produced by mixing Resin A and Hardener B. Extremely resistant to mechanical loading and abrasion, very resistant to water, benzene, oils, detergents, plasticisers from car tyres and chemicals.

- ▶ Good covering capacity
- ▶ Low odour
- ▶ Abrasion resistant
- ▶ Chemical resistant
- ▶ Easy to clean
- ▶ Solvent-free

On very smooth surfaces, can be installed as a slip-resistant finish by scattering with UZIN Fine Sand. For a consistent slip-resistant finish, UZIN EP 23 AS with integrated 0.2 mm grade quartz sand can be used (see the Product Data Sheet for UZIN EP 23 AS).

**Note:** When exposed to strong light, can become slightly chalky, therefore not suitable for areas with high visual demands, e.g. in domestic locations.



## Technical Data:

Packaging:	metal combi-can
Packsize (A + B):	8 kg
Shelf life:	min. 12 months
Colour:	available in 2 standard colours
Hazard features:	see "Protection of the Workplace and Environment"
Mixing ratio:	A : B = 6.8 : 1.2 parts by weight
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. 250 – 350 g /m <sup>2</sup> per coat
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
Chemical resistant:	after 7 days*
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 against rising damp by means of a moisture barrier, properly installed in accordance with the DIN standards. Completely remove old adhesive and levelling compound layers down to the load-bearing subfloor by means of milling, cutting and/or grinding. Roughen smooth and dense surfaces (concrete) by light/gentle shot-blasting. Burn off contamination and then thoroughly abrade or shot-blast. Repair any holes and surface damage with reaction resin mortar made from UZIN PE 460 2-component epoxy primer and UZIN XS Special Fillers (mixing ratio approx. 1 : 10). On UZIN NC 172 Rapid Levelling. Apply 2 coats of PE 460 2-component epoxy primer-sealer to uneven cement substrates with residual moisture and after curing, level our unevenness by applying UZIN EP 12 2-component epoxy scratch coat with a rake, notch R1 and after curing/hardening, sand down with 80 grit sanding paper. Primedry, floating screeds laid to DIN standards with UZIN PE 360 and level with UZIN NC 170 Levelstar or UZIN NC 172 BiTurbo. UZIN EP 23 can then be applied without primer. Compound, UZIN EP 23 can be applied without primer.

## 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 equipment. Transfer the mix into an oval bucket and mix again briefly.
2. Immediately apply an even coat of UZIN EP 23 Floor Seal onto the substrate using the UZIN nylon fibre roller. At edges, UZIN EP 23 can be applied with a radiator brush. Work quickly and within the stated working time. Ensure a fully sealed coat. 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. Apply the second coat within 24 hours.

## Colour Range:

### Standard Colours

Colour No.	Colour	Article No.
7038	agate grey	33210
7023	concrete grey	33211

## Consumption:

According to surface absorbency and condition, consumption for roller application: 250 – 350 g/m<sup>2</sup> per coat. Dependent on the structure of the surface, higher consumption is possible, e.g. on surfaces fully grit-blinded with UZIN Fine Sand 0.8, consumption is up to 900 g/m<sup>2</sup>.

## 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 %.
- ▶ Use neutral or slightly alkaline maintenance and cleaning materials.
- ▶ Substrate residual moisture content must not exceed 5.0 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 sealer-primer 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. 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.