

2-Component Epoxy Mortar Resin

# UZIN ER 200

Reaction resin binder for producing resin / sand mixes

## Description:

2-component binder for mixing reaction resin smoothing compounds, screeds and mortars with the appropriate UZIN special fillers or quartz sand – for interior and exterior use.

Suitable for:

- ▶ self-levelling, heavy-duty and chemical-resistant smoothing compounds
- ▶ rapid setting and drying screeds that are bonded, on separating membranes or on thermal insulation
- ▶ chemical resistant repair mortars for levelling uneven areas and for filling holes
- ▶ use on absorbent and non-absorbent surfaces, e.g. cement- and calcium sulphate- screeds, concrete, metals, old ceramics, etc.

Suitable for all applications in industrial and heavy-load locations and where there is high demand on chemical resistance, e.g. on industrial flooring and work areas.

Suitable for use on warm water underfloor heating systems and in permanently wet areas.



## Product Properties / Benefits:

Reaction resin binding agent based on 2-component epoxy resin, produced by mixing Resin A and Hardener B. When further mixed with UZIN special fillers or UZIN quartz sand, produces smoothing compounds, screeds and repair mortars with high mechanical and chemical resistance.

Binder: Polyamine cross-linking epoxy resin

- ▶ Water- and solvent- free
- ▶ Rapid setting
- ▶ Chemical resistant
- ▶ Weather resistant
- ▶ Highly abrasion resistant
- ▶ Low stress and shrinkage

## Technical Data:

Packaging:	metal combi-can
Packsize:	10 kg
Shelf life:	minimum 12 months
Colour:	yellowish
Hazard characteristics:	see "Protection of the Work-place and the Environment"
Mixing ratio:	A : B = 1.9 : 1 parts by weight see "Fillers / Consumption"
Working temperature:	min. 15 °C / 59 °F at floor level
Pot life:	approx. 35 minutes*
Set to foot traffic:	after 12 – 24 hours*
Resistance to water and chemicals:	after 7 days*

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

## Substrate Preparation:

The substrate must be level, sound, dry, free from cracks, clean and free from materials which would impair adhesion.

Calcium sulphate screeds must be abraded and vacuumed, either as a finishing treatment by the screed installer, or as a special service, by the installer of the floor covering.

Brush, abrade or shot-blast to remove loose or soft surface material. Abrade off old adhesive or covering residues. Abrade any dense, smooth or metallic surfaces. On metals, test adhesion in advance. Thoroughly vacuum the surface.

Test the substrate in accordance with applicable standards and notices and report any deficiencies.

## Application:

1. Before use, bring the containers to room temperature. Punch several times through the plastic plug and the floor of the upper container (Hardener B), e.g. with a long screwdriver. Allow the hardener to drain fully into the lower container (Resin A). Remove the empty upper container and thoroughly blend the two components with suitable mixing equipment (spiral or basket whisk or similar). Decant all of the mixed material into a second, clean container and mix thoroughly once again.
2. As a primer, immediately apply a thin, even coat of the mixed material onto the substrate using a nylon fibre roller.
3. For producing smoothing compounds, screeds and repair mortars, add to the mixed reaction resin the appropriate UZIN special fillers or UZIN quartz sand (see "Consumption Table") and blend for at least 2 minutes using mixing equipments or a forced action mixer.
4. Immediately distribute, pull out and smooth the homogeneous mixed material on the surface.
5. Clean tools immediately after use with UZIN VE 124. Hardened material can only be removed by mechanical means.

## Consumption:

Application	Filler Mixing Ratio
Priming:	Mixed resin without fillers per coat Consumption: 200 – 400 g / m <sup>2</sup> per coat
Smoothing Compound e.g. with UZIN Special Fillers ES	<u>Consumption for Mixing Ratio 1:1.5 parts by weight</u> approx. 10 kg UZIN ER 200 + 15 kg UZIN ES produces approx. 14 litres of self-levelling mix. Per mm of thickness per m <sup>2</sup> : consumption of approx. 0.72 kg UZIN ER 200 + 1.1 kg UZIN ES
Screed / Mortar e.g. with UZIN Special Fillers XS – 1:10 or 1:15 parts by weight acc. to desired consistency	<u>Consumption for Mixing Ratio 1:10 parts by weight</u> approx. 10 kg UZIN ER 200 + 100 kg UZIN XS sand produces approx. 16 litres of compact mix. Per mm of thickness per m <sup>2</sup> : consumption of approx. 1.6 kg UZIN ER 200 + 16 kg UZIN XS sand

## Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool and dry conditions. When cold, material may thicken.
- ▶ Optimum working conditions are 18 – 25 °C / 64 – 77 °F. Low temperatures will impair the working consistency and delay setting. High temperatures shorten the pot-life and setting time. Do not use at temperatures below 15 °C / 59 °F or above 30 °C / 86 °F.
- ▶ When using as a smoothing compound, allow the primer to set. However, apply the smoothing compound onto the set primer coat within 24 – 36 hours. If this is not possible, broadcast UZIN Fine Sand 0.8 into the primer whilst it is still wet. After setting, sweep off any sand that has not bonded.
- ▶ Apply epoxy screed and mortars into the primer wet-in-wet.
- ▶ Protect freshly laid surfaces from draughts, direct sunlight and influences of heat.
- ▶ Do not mix part quantities!
- ▶ According to application, the following standards and notices are applicable and recommended:
  - DIN 18 365 "Working with floor coverings"
  - DIN 18 356 "Working with parquet"
  - DIN 18 352 "Tiling working"
  - DIN 18 560 "Screeds in the construction industry"
  - publication of the Adhesives Industry Association "Assessment and preparation of substrates – adhesion of resilient and textile floor coverings"
  - publication of the Central Association of German Construction Trades (ZDB) "Resilient floor coverings and parquet on heated floor constructions"

## Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin / Xi: Irritant. Comp. B: Contains amine hardener / C: Corrosive. Both components: May cause irritations or burns 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, "N/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:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free metal / plastic containers are recyclable. Liquid residues as well as containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.