

2-Component Repair Resin

# UZIN KR 416

Low viscosity, multipurpose, acrylic resin for repairs to screeds and concrete

**Description:**

Multi-use, 2-component, acrylic resin for casting, filling, bonding and coating work on mineral surfaces in interior and exterior locations.

Especially suitable:

- ▶ for strong resin-bonded repairs to joints and cracks in screeds and concrete
- ▶ as an injected /poured repair for hollow-spots in bonded screeds
- ▶ as a bonding resin for corner-trims, carpet grippers, profiles and trims made of metal, wood or plastic, etc.
- ▶ for repairing ceramics, stone, concrete, etc.

Mixed with UZIN Fine Sand 0.8:

- ▶ as a reaction resin mortar with fluid or paste consistency, according to sand quantity, for filling wide cracks, repairing concrete stairs, for slip-resistant coatings, etc.

Suitable for use on warm water underfloor heating systems.

**Product Properties/Benefits:**

Cold-hardening, 2-component acrylic resin. Multipurpose use as a poured-, filling- or bonding- resin with exceptional adhesion to mineral or hard construction materials and very high strength.



**Binding agent:** Resin A: methylmethacrylate, Hardener B: dibenzoylperoxide powder.

- ▶ Low viscosity
- ▶ Excellent penetration
- ▶ Very rapid setting
- ▶ Pot-life and consistency can be adjusted
- ▶ Water- and frost- resistant
- ▶ Chemical-resistant
- ▶ Ideal crack- and joint-repair resin
- ▶ Supplied with: UZIN Screed Anchors

**Technical Data:**

Packaging:	metal can + PE bottle
Packsizes (A + B):	750 g
Shelf life:	min. 12 months
Colour:	yellowish
Hazard characteristics:	see "Protection of the Workplace And the Environment"
Hardener quantity:	see "Application"
Working temperature:	min. 5 °C / 41 °F at floor level
Pot life:	10 – 20 minutes see "Application"
Load bearing / Set to foot traffic:	after approx. 1 hour *
Final strength:	after 12 – 24 hours *

\* At 20 °C / 68 °F and 65 % relative humidity.

## Substrate Preparation:

The substrate and the surface of the item to be bonded must be sound, dry and clean. Remove any dirt, dust and loose material, as well as any greasy or oily contamination that would act as a separating agent. Carefully clean or degrease dense or smooth surfaces, e.g. metal or plastics, or preferably abrade them.

The best adhesion is onto rough, mineral surfaces. On metals and plastics, conduct a test.

## Application:

Each can of resin is supplied with a PE bottle of hardener powder containing approx. 5.5 % of the resin quantity. 2 % hardener (approx. 1/3 of the bottle contents) gives a long pot life (approx. 20 minutes) and slow curing; 5.5 % (the full bottle contents) gives a very short pot life (approx. 10 minutes) and rapid curing. Any adjustment in between is possible.

1. **As a poured resin:** Sprinkle the selected quantity of hardener powder B into the resin A and mix vigorously until the powder is fully dissolved. Only mix as much resin as can be used within the appropriate pot life. Mix part quantities in a clean metal container and adjust the hardener quantity accordingly.
2. **As a reaction resin mortar:** Quickly combine resin A with approx. 4 parts by weight UZIN Fine Sand 0.8 and the full hardener quantity (5.5 %) and mix well. By addition of the sand, the pot life is extended by more than 15 minutes.
3. According to the selected consistency, pour or trowel-apply as a reaction resin fluid or paste. For later application of smoothing compound or mortar, the still-wet resin surface must be fully gritted with UZIN Fine Sand 0.8 and vacuumed off when set.
4. Clean tools immediately after use with GN Thinners UZIN VE 100. Hardened material can only be removed by mechanical means.

### Example: sealing screed cracks

Open the crack to between 1/2 and 2/3 the depth of the screed using an angle-grinder. Make cross-cuts of approx. 10 cm length along the crack at approx. 20 – 30 cm centres and approx. 2/3 the depth of the screed. Carefully vacuum out the crack and the cross-cuts, then completely fill with the resin, fit UZIN Screed Anchors into the cross-cuts and wipe off any excess resin from the surface. Fully cover the still wet resin with UZIN Fine Sand 0.8 and, after setting, vacuum off any loose sand.

## Important Notes:

- ▶ Shelf-life minimum 12 months in original packaging when stored in cool, dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum working conditions are 10 – 25 °C / 50 – 77 °F, floor temperature above 5 °C / 41 °F.
- ▶ **Caution:** The material can become extremely hot in the container after mixing; therefore, only mix in metal containers and do not leave unattended after mixing.
- ▶ The material attacks polystyrene foam insulation. When using with plastics, as a matter of principle always verify suitability of the material by conducting a bond-test.
- ▶ Only seal "wild" screed cracks and surface joints once the screed is ready for covering, that is when it has reached the permissible residual moisture level and no more shrinkage cracking is to be expected.
- ▶ Only seal cracks that go through the full cross-section of the screed, not hairline cracks or "craquelure" (crazing).
- ▶ UZIN Screed Anchors are also available separately in bags of 100 pieces.

## Protection of the Workplace and the Environment:

**Comp. A:** Contains methylmethacrylate. Highly flammable. Keep away from sources of ignition. No smoking. Do not inhale vapours.

**Comp. B:** Contains Dibenzoylperoxide. Promotes fire. Risk of fire in contact with combustible materials.

**Both components:** Irritant. Irritating to eyes, respiratory system or skin. May cause sensitisation by skin contact. Avoid contact with skin and eyes. Provide good ventilation. Use barrier cream, protective gloves and safety-goggles. 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.

Observe safety information on product label as well as safety data sheet.

After application a typical acrylate-type odour may occur over a short period. Once cured, the product has a 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 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.