Product Datasheet

2-Component Repair Resin

UZIN KR 416

Low viscosity, multi-purpose acrylic resin for repairing screeds and concrete

MAIN APPLICATION FIELD:

- special resin for sealing of narrow and wide joints and cracks in screeds and concrete
- bonding of angled rails, nail strips, profiles and rods of metal, wood, plastic or similar
- reparation work on concrete, ceramics, stone or similar
- filing hollow spots in compound screeds

SUITABLE ON / FOR:

- on dense or absorbent existing substrates
- calcium sulphate or cementitious screeds, concrete
- magnesia and xylolite screeds
- existing ceramic and natural stone coverings, terrazzo or similar
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- suitable for residential and commercial areas

PRODUCT BENEFITS/FEATURES:

UZIN KR 416 is a multi-purpose acrylic resin for filling, bonding and coating mineral substrates. It offers excellent bonding to mineral substrates. For interior and exterior use.

- very good penetration properties
- fast curing
- adjustable pot life and consistency
- resistant to water and chemicals
- frost resistant

TECHNICAL DATA:

Packaging	metal can and PE bottle with corrugated links
Pack size	0.75 kg
Shelf life	min. 12 months
Working time	10 - 20 minutes*
Pot life	10 - 20 minutes*
Ready for foot traffic	after approx. 1 hour*
Minimum application temperature	5 °C at ground level
Final strength	after 12 - 24 hours*

*At 20 °C and 65% relative humidity.

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EXTENDED APPLICATIONS:

- mixed with UZIN fine sand 0.8 as a reaction resin for filling wide cracks, for reperation of concrete stairs or for anti-slip coatings

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues, etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum loose material and dust. Dense, smooth and metalic substrates have to be degreased and grinded. Perform bonding pretests on metals or plastic.

The datasheets for other used products have to be observed.

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 cast 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 trowelapply 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. Dry material can only be removed mechanically.

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, fir 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:

- A shelf life of 12 months when stored in moderately cool conditions, in the original packaging. Use the contents quickly. Allow containers to come to room temperature.
- Best applied between 10 - 25 °C, with the floor temperature above 5 °C.
- **Caution:** Material can become extremely hot after mixing in the container. Therefore use the material immediately, don't leave the container unattended after mixing and take the bucket outside after use to allow residues to cure.
- Material attacks polystyrene insulation boards. When using on plastic, always verify suitability of the material by performing pretests.
- Close cracks and joints in screeds only when the screed is ready for covering, i.e. the permissible max. residual moisture level is reached and further development of shrinkage cracks are not to be expected.
- Only seal cracks that go through the full cross-section of the screed, not hairline cracks or ”craquelure” (crazing).
- UZIN corrugated links are included with each carton for the restoration of cracks; they are also separately available in the UZIN product offering. 10 corrugated links are included.
- Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

COMPOSITION:

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

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.

DISPOSAL:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

This product is intended exclusively for professional use by qualified commercial users. It must not be supplied to consumers. The above information is based on our experience and careful investigations. The variety of associated materials and different constructions and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the floor covering manufacturer. The publication of this Product Data Sheet invalidates all previous product information. The respective updated version of this datasheet can be found on our website under www.uzin.com | 09/2026