

2-Component Silicate Resin

UZIN KR 516

Low-odour resin for quick crack repair, bonding and filling works

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
- ▶ installation of stair reparation angles
- ▶ use as a construction and reparation resin in the building industry

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:

The solvent-free silicate resin can be mixed by simply shaking it and is ready for use after 15 seconds. The consistency can be chosen from thin (2 minutes) to highly viscous (6 minutes) depending on the setting time. Many different applications are possible and small amounts can be used for minor repairs. UZIN KR 516 has very low odour during and after application, therefore it can be applied during ongoing operations. Screed insulating layers or expansion strips are not adversely affected by UZIN KR 516.

- ▶ low odour
- ▶ extremely fast curing
- ▶ mixing part quantities is possible
- ▶ no need for a stirring
- ▶ adjustable consistency



TECHNICAL DATA:

Packaging	plastic bottles with corrugated links
Pack size	2 x 300 ml
Shelf life	min. 12 months*
Colour	yellowish
Consumption	approx. 100 ml /running metre on narrow screed cracks, otherwise according to joint width /depth
Pot life	10 - 12 minutes* / 6 - 8 minutes in the bottle*
Ready for foot traffic	after 45 minutes*
Minimum application temperature	10 °C at ground level
Final strength	after approx. 24 hours*

*At 20 °C and 65% relative humidity.



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 metallic substrates have to be degreased and grinded. Perform bonding pretests on metals or plastic.

Use an angle grinder to perform a 25 cm cut perpendicular to the running direction and, if necessary, lengthwise; cutting depth approx. half the screed thickness but at least one third. Do not damage heating elements of underfloor heating. Vacuum the cuts with a powerful vacuum cleaner, then insert UZIN corrugated links.

The datasheets for other used products have to be observed.

APPLICATION:

1. Pour bottle of component A into the bottle of component B and close it. Shake vigorously for 15 seconds.
2. The mixed material does not harden suddenly but continuously. For fluid usage apply within 4 minutes. For wide joints or bonding work allow the material to become slightly thicker, e.g. wait another 3 minutes and then process quickly. Note short processing time. The material can be extended with quartz sand, e.g. UZIN Fine Sand.
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4. Introduce UZIN Fine Sand into the resin while still damp to achieve a good bond with subsequent materials. Vacuum off loose sand after setting.
5. Clean tools immediately after use with towels of UZIN Clean-Box.

CONSUMPTION INFORMATION:

For substrates with a crack width of 4 mm and a crack depth of 25 mm the consumption is 100 ml /metre of crack. The common coverage for cementitious screed crack resin treatment in new constructions with the above mentioned crack cross-section is therefore approx. 6 linear metres per bottle pair with 2 x 300 ml.



Expand screed cracks, joints and set cross-sections with little dust, using the Screed Joint Cutter from Wolff Tools.



Following the cutting, vacuuming and insertion of the corrugated links, UZIN KR 516 is precisely applied into the joint.



Smoothed UZIN KR 516 must be sanded with UZIN Fine Sand while fresh.

IMPORTANT NOTES:

- ▶ Shelf life at least 12 months in original packaging when stored in moderately dry and cool conditions. Do not store below +10 °C. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum processing at 15 – 20 °C and relative humidity below 65 %. Low temperatures extend the working time and delay setting and finishing work. High temperatures shorten the working time and accelerate setting and finishing work. Warm material to room temperature in winter in due time.
- ▶ Do not use in direct sunlight outside since the material will turn yellowish.
- ▶ Caution: Material may warm up strongly in the container after mixing. Do not leave unattended therefore and place outside, if necessary.
- ▶ Close cracks and joints in screed only after the screed has reached its readiness for covering, i.e. the permissible max. residual moisture and further development of shrinkage cracks are not to be expected.
- ▶ For substrates with underfloor heating care must be taken not to damage the heating elements when cutting.
- ▶ UZIN corrugated links are included with each carton for the restoration of cracks; they are also separately available in the UZIN product offering. 20 corrugated links are included with each bottle pair.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of floor covering or wood flooring of the respective applicable national standards (e.g. EN, DIN, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 356 "Working with wood flooring"
 - DIN 18 352 "Tile and natural stone work"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of substrates"
 - Bulletin of the Federal Association for Area Heating and Cooling, Inc. "Interface coordination for heated underfloor constructions"

SEALS OF QUALITY & ECOLABELS:

- ▶ Solvent-free
- ▶ EMICODE EC 1 PLUS / Very low emission

COMPOSITION:

Component A: sodium silicate, Component B: MDI isocyanate

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Comp. A: Requires no special protection or precautions in general use. Comp. B: Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable

vapours of MDI. Harmful: May cause damage to organs through prolonged or repeated exposure. May cause sensitisation by inhalation and skin contact. 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. Once cured, has a neutral odour and presents no physiological or ecological risk.

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 and allow to harden, then dispose as Construction Waste.