Product Datasheet

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:

UZIN KR 516 is a versatile 2-component silicate resin for sealing screed cracks and joints as well as for filling, bonding and repairing mineral substrates. The product is easy to handle and is odourless during and after application. Depending on the waiting time, the consistency can be adjusted. Therefore UZIN KR 516 can be used for a variety of purposes. For interior and exterior use.

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

GEV-EMICODE EC 1 PLUS very low emission

TECHNICAL DATA:

Packaging	plastic bottles with corrugated links
Pack size	2 x 300 ml
Shelf life	min. 12 months*
Color	yellowish
Consumption	depending on application
Working time	10 - 12 minutes* / 6 - 8 minutes in the bottle*
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.

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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.

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.

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

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.
3. The material can be extended with quartz sand, e.g. UZIN Fine Sand.
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.

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

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.

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

IMPORTANT NOTES:

- A shelf life of 12 months when stored in moderately cool conditions, in the original packaging. Don't store below 10 °C. Use the contents quickly. Allow containers to come to room temperature.
- Best applied between 15 - 20 °C, with the floor temperature above 15 °C and relative air humidity below 65%. Low temperatures and high air humidity lengthen the working and drying time. Whilst high temperatures and low air humidity shorten the working and drying time.
- Do not use in exterior areas with direct sunlight. Material will yellow.
- **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.
- 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.
- 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 wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

SEALS OF QUALITY & ECOLABELS:

- Solvent-free
- EMICODE EC 1 PLUS / Very low emission
- No EPD available
- Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

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, mix both components and allow to harden, then dispose as Construction Waste.