

2-Component Casting and Bonding Resin

UZIN KR 521

Strong resin repair of screed cracks

Description:

Multipurpose, 2-component, polyester resin for bonding, smoothing, filling and repair work on interior and exterior mineral surfaces.

Suitable for / on:

- ▶ strong stitch-bonding of wide joints and cracks in screeds and concrete
- ▶ bonding, smoothing and repair work on concrete, stone, ceramics, etc. – e.g. on stairs
- ▶ fixing / bonding of corner trims, carpet grippers, profiles and trims made from metal, wood or plastics, etc.
- ▶ application as a multipurpose bonding and repair resin for all construction work
- ▶ use on warm water underfloor heating systems and for exposure to castor wheels in accordance with DIN EN 12 529

Product Properties/Benefits:

Cold-setting, 2-component polyester resin. Multipurpose applications as a casting-, filling- and bonding- resin with exceptional adhesion to mineral or hard construction materials and with very high strength.

With its paste-like consistency UZIN KR 521 is suited ideal for wide joints and cracks in various surfaces.

Through the hands-on packaging unit it is also possible to mix only part quantities without any problems.



Binding agent: Resin A: unsaturated polyester, dissolved in styrene; Hardener B: dibenzoylperoxide paste.

- ▶ High viscosity
- ▶ Can be covered after approx. 30 minutes
- ▶ Very hard yet easy to abrade
- ▶ High bond-strength
- ▶ Water- and frost-resistant
- ▶ Chemical resistant
- ▶ Ideal bonding and repair resin

Technical Data:

Packaging:	metal combi-can
Packsize:	1.2 kg resin + 30 g hardener
Shelf life:	min. 12 months
Colour:	beige
Hazard features:	see "Protection of the Work- place and Environment"
Hardener ratio:	see "Application"
Working temperature:	min. 5 °C / 41 °F at floor level
Pot-life:	5 – 15 minutes see "Application"
Load bearing / set to foot traffic:	after approx. 30 minutes*
Final strength*:	after 12 – 24 hours*

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

Substrate Preparation:

The substrate must be sound, dry, clean and free from materials that would impair adhesion. Remove all dirt and dust, as well as greasy or oily contamination that would act as a separating agent. Carefully clean and degrease, or preferably abrade, dense or smooth surfaces, e.g. metals or plastics.

The best adhesion is achieved on rough, mineral surfaces. Conduct an adhesion test on metals and plastics.

Otherwise, make right-angle cross-cuts using an angle-grinder at approx. 20 – 25 cm centres and to the required length; cut to approx. half, but to at least one third of the screed depth.

Vacuum out the screed cuts using a high-performance vacuum cleaner and then lay in UZIN Screed Clamps.

Application:

1. First, stir up carefully the resin in the can. Add the hardener paste B to the resin A and immediately mix vigorously until the resin is streak-free. The resin sets faster the more hardener is added. The pot-life for the container contents is:

12 – 15 minutes*	with 10 g hardener (approx. 1/3 tube)
8 – 12 minutes*	with 15 g hardener (approx. 1/2 tube)
5 – 8 minutes*	with 30 g hardener (whole tube)

For part quantities, reduce the hardener amount accordingly. Only mix as much as can be used within the stated pot-life.

2. **Bonding:** Apply the adhesive to the surface with a trowel, put the part to be bonded into place and secure until set.
3. **Resin-bonding:** Pour 2-Component Casting and Bonding Resin UZIN KR 521 into the crack or joint and scrape off any excess material on the surface. The resin-treated areas must be covered whilst still fresh with UZIN Fine Sand 0.8 to form a dry excess so as to guarantee a good mechanical key for subsequent cement-based levelling compounds.
After the setting time, remove any excess quartz sand by brushing with a stiff broom and vacuuming with a high-performance industrial vacuum cleaner.
4. Clean tools immediately after use with GN-Thinners UZIN VE 100. Hardened material can only be removed by mechanical means.
5. Can be sanded after approx. 30 – 60 minutes*. Before bonding coverings directly, abrade the surface.

Consumption:

Consumption per metre of crack length is calculated using the crack cross-section area (width x depth) multiplied by the material's specific density (approx. 1.8). Example for a crack 5 mm wide and 30 mm deep (5 x 30 x 1.8): approx. 270 g per metre of crack length. In this case, this is approx. 4 linear metres per can.

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

Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in cool, dry conditions. Carefully and tightly re-seal opened containers and use the contents as soon as possible.
- ▶ Optimum working conditions are 10 – 25 °C / 50 – 77 °F, floor temperature above 5 °C / 41 °F.
- ▶ **Caution:** The material can become very hot in the container after mixing; therefore, mix only in metal containers and do not leave unattended after mixing.
- ▶ Only seal screed cracks and surface joints once the screed is ready for covering, i.e. when it has reached the permitted level of residual moisture and no further shrinkage cracking is to be expected.
- ▶ UZIN Screed Clamps are available in bags of 100 in the UZIN assortment.

Caution: when using larger quantities of the 2-Component Casting and Bonding Resin UZIN KR 521, an intensive and, in some circumstances, long-lasting odour may be produced. In such cases, use other products such as e.g. the low-odour 2-Component Epoxy Repair Resin UZIN KR 419.

Protection of the Workplace and the Environment:

Comp. A: Contains styrene/Flammable. Xn: Harmful. Keep away from sources of ignition. No smoking. Do not inhale vapours. Comp. B: Contains Dibenzoylperoxide / Xi: Irritant. O: Promotes fire. Risk of fire in contact with combustible materials. May cause sensitisation by skin contact. Both components: Irritating to eyes, respiratory system or skin. 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 styrene-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 containers are recyclable. 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.