



Crack Bridge

# UZIN RR 203

Fibreglass crack reinforcement system for repairing cracks, area separation joints and movement on different substrates.

Crack reinforcement system in sheets and panels with extreme tensile strength and strong breaking resistance. For reworking cracks, area separation joints and movement at different substrates with crack widths of 3 – 5 mm. A crack-free, load-bearing substrate is created in the UZIN RR 203, UZIN RR 201 composite system and UZIN levelling compounds.

### Main area of application:

- ▶ Crack and joint reinforcement with slight vibration up to a width of 5 mm
- ▶ Reinforcement /bridges for screed chipping and movement
- ▶ Reinforcement /bridging between different substrates
- ▶ Heavy duty for use in residential, commercial and industrial areas, e.g. in hospitals, shopping malls, etc.



**Composition:** Alkaline-resistant fibreglass, with parallel fibre strands, bonding fibre grids and glass fibre felt.

- ▶ Extremely high tensile strength and tear-resistant
- ▶ Bridges and reinforces cracks, joints and transitions
- ▶ Extremely easy to install
- ▶ Panel product saves time
- ▶ Avoids use of repair resins
- ▶ Very high composite strength
- ▶ Not a hazardous substance



### Technical data:

Product Type:	rolls, panels
Roll dimensions / pack size:	0.8 m x 30 m / carton 24 m <sup>2</sup> = 1 roll
Panel dimensions / pack size:	0.8 m x 0.60 m / carton 24 m <sup>2</sup> = 50 panels
Shelf life:	min. 24 months
Colour:	white
Area weight:	approx. 108 g / m <sup>2</sup>
Filaments / fibre strand:	3,200 pcs
Tensile strength on filament:	3,500 N / mm <sup>2</sup>
E-module:	72,000 N / mm <sup>2</sup>
Strain at breaking:	2.0 %



## Extended area of application:

- ▶ Creation of a crack-free and load-bearing substrate in the composite system with UZIN RR 201 and UZIN levelling compounds
- ▶ Closing of expansion joints for underfloor heating systems (please consult UZIN Technical)
  
- ▶ On all types of screed or concrete
- ▶ On old substrates with strongly bonded compound and adhesive residues
- ▶ On firmly screw-fixed chipboard P4 – P7 or OSB 2 – OSB 4 panels
- ▶ On precast screed, gypsum board plates as well as hollow spaces/false floors
- ▶ On impact sound and stress relief boards
- ▶ On warm water underfloor heating systems
- ▶ The removal of old substrates can often be avoided when used in the composite system with UZIN RR 201 and UZIN levelling compounds

## Product benefits / features:

UZIN RR 203 bridges and reinforces cracks, joints and movement through the enormous tensile strength of the alkaline-resistant fibreglass strands. This crack reinforcement compensates for slight vibration and movements from the substrate thus avoiding more elaborate substrate work.

## Benefits through new quality:

### Construction without film:

UZIN RR 203 no longer has a backing film. This produces many advantages when installing, such as significant time savings. It can also be cut and installed more easily.

### Panel product:

In addition, the new panel product of UZIN RR 203 reduces the amount of cutting required. The dimensions (60 cm x 80 cm) have been chosen so that 30 cm bridges both sides of the crack or joint and standard doorways are covered by the 80 cm length.

## Application examples:



Bridging and reinforcement of cracks, joints and movement now becomes even faster and easier with UZIN RR 203.



Depending on the requirement, UZIN RR 203 can be used with UZIN NC 182 or UZIN MK 92 S.



UZIN RR 203 panels reduces the need for cutting widths e.g. for standard doorways (80 cm).



Cutting UZIN RR 203 to size is simply done with a knife and special scissors are no longer required.

## Substrate preparation:

The substrate must be dry and free from materials (dirt, oil, grease) that would impair adhesion.

Test the substrate in accordance with applicable standards and bulletins and report any deficiencies.

Remove layers that would reduce adhesion or are not firmly bonded to the substrate, e.g. by brushing off, abrading, grinding or shot-blasting. Thoroughly vacuum loose material and dust. In addition, thoroughly vacuum cracks and prime with appropriate primer. Prime very porous or unstable substrates with 2-component epoxy resin primers (e.g. UZIN PE 460), sand excessively with quartz sand, 0.3 – 0.8 grain, and vacuum thoroughly after curing. For cracks and crack areas with slight vibration or minor movement friction-sealed closing of the cracks and area separation joints with cast resin (up to 5 mm crack width) can be omitted, and reworking as described below may be done.

The product data sheets of the other products used must be observed.



Sand UZIN MK 92 S with UZIN Fine Sand 0.8 for subsequent levelling work.



Use in composite system of UZIN RR 203 with UZIN RR 201.

## Processing:

### Use with low-slump smoothing compound:

1. Cut UZIN crack bridge with scissors into lengths of approx. 60 cm (step 1 is obsolete when using panel products).
2. Prepare the crack zone by applying a thin and even layer of low-slump smoothing compound, at least 30 cm both sides of the crack.
3. Ensure the fibre strands are run across the crack line and the fleece side faces upward. Press into the fresh smoothing compound (without overlapping). Apply pressure over the whole length followed by smoothing.
4. Remove unwanted smoothing compound with water whilst fresh.

### Use with UZIN MK 92 S:

1. Perform steps 2 – 3 as described above with UZIN MK 92 S (observing the associated product data sheet).
2. Before a smoothing compound is installed, apply quartz sand (0.3 – 0.8 grains) over the fresh adhesive, and vacuum thoroughly after curing.
3. Remove fresh adhesive residues with UZIN Clean-Box cloths. Once cured adhesive residues can only be removed mechanically.

### Composite system:

1. Perform steps as described above.
2. Apply a coat of primer onto the surfaces after the smoothing compound has set.
3. After this, the total area is loosely laid with the UZIN RR 201 UZIN renovation fleece and fully covered with smoothing compound (at least 5 mm thick).
4. Aerate the smoothing compound with a spike roller before allowing to dry.

## Important notes:

- ▶ Shelf life of original pack at least 24 months when stored upright (rolls), or horizontally (panels) under moderately cool and dry conditions. Frost-resistant to –25 °C.
- ▶ Optimum working conditions at 18 – 25 °C, floor temperature above 15 °C and relative humidity below 65 %.
- ▶ The assessment and restoration of worn substrates requires experience and solid technical knowledge. If in doubt, contact UZIN Technical.
- ▶ Expansion, movement and perimeter joints in the substrate must be adopted. Fit UZIN Foam Expansion Strips to any adjoining rising structures to prevent ingress of the compound into the connection joints. Expansion strips are generally necessary for thicknesses over 5 mm. On wooden substrates the expansion strip must be completely removed after levelling work.
- ▶ For closing of expansion joints for underfloor heating systems only upon consultation of consult UZIN Technical for subsequent recommendation.
- ▶ The substructure of wooden floors must be dry. Adequate ventilation or rear-ventilation must be provided, e.g. by removing the existing expansion strip or by installing special skirtings with vent openings.
- ▶ Mastic asphalt screeds must be well sanded and exhibit a continuous and sufficiently wide perimeter joint. Obtain application consulting for old mastic asphalt screeds.
- ▶ Ensure the companion products, such as primers, levelling compounds, etc. dry completely.
- ▶ UZIN RR 203 is also suitable for exterior areas when used with codex primers and levelling compounds that are also recommended for exterior application.
- ▶ Observe the generally acknowledged rules of the trade and technology for the installation of floor covering or wood flooring as well as the respective applicable national standards (e.g. EN, DIN, VOB, Austrian Ö-Norm, SIA, etc.). The following standards and bulletins, amongst others, represent supporting information and are recommended for special attention:
  - DIN 18 365 "Working with floor covering", Ö-Norm B 2236
  - DIN 18 356 "Working with wood flooring", Ö-Norm B 2218
  - DIN 18 352 "Tile and slab work"
  - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
  - BEB publication "Assessment and preparation of substrates"
  - TKB publication "Technical description and processing of cementitious floor levelling compounds"
  - Technical bulletin of the Central Association of the German Building Construction Trade
  - (ZDB) "Resilient and textile floor coverings and wood flooring on heated floor constructions"

## Protection of the workplace and the environment:

This product contains fibreglass that may cause skin irritations (itching) during processing. Use working clothes, barrier cream and protective gloves (rubber, PVC). Refer to the notes on protection of the workplace and the environment in the Product Information Sheets for the other installation materials used.

## Disposal:

Where possible, collect product residues and re-use. All product residues are treated as normal construction waste.