

Technical Data Sheet Art. No. 6872

IR Epoxy 360

Rigid 2-component epoxy injection resin



Floors/Walls
Indoors/
Outdoors



Mixing ratio



Working time



Total consumption per l
of void



Store frost-free
and cool,
protected from
moisture in
closed contain-
ers



Shelf-life

Range of use

- Friction locked bonding and glueing
- Filling of cracks and void in concrete
- Glueing of detached concrete and screeds
- Attaching of tension anchors
- Grouting of construction joints

Certifications, test certificates

- Testes according to ZTV-Ing (RISS)
- BASt-listed, monitored according to DIN V 18028
- KTW recommendation D1
- Satisfies the requirements of DIN EN 1504-5:2004
- Reaction to fire test B2
- EPD-DBC-20130047-IBG1-D

Property profile

- Low viscosity
- High adhesive power, high adhesion to joint flanks
- Volume and form-locking
- Highly resistant to chemicals
- High adhesive tensile strength inherent strength
- Total solid*
* Similar to the testing method of Deutsche Bauchemie e.V.

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density:	1,1 g/cm ³	0,94 g/cm ³	
Viscosity: (12 °C):			1100 mPa·s
Viscosity: (23 °C):			360 mPa·s
Compressive strength:	45 N/mm ²		
Flexural strength:	53 N/mm ²		
Adhesive pull strength:	4,3 N/mm ²		
Tensile strength	50 N/mm ²		
Ultimate elongation:	28 %		
Shrinkage:	< 3 %		
Glass transition temperature:	> 40 °C		

The values given above represent typical product properties and are not to be understood as product specification.

Substrate

The substrate must be clean and free of loose parts and separating substances.

Clean the run of the crack by blowing out with oil-free compressed air. On vertical surfaces, the crack is tamped with Rapid Hardener. On vertical surfaces, the crack is tamped with Epoxy BH 100 together with the thixotroping agent Add TX.

The boreholes for the injection packers should be drilled along both sides of the crack, staggered at intervals half the building element

thickness, in an angle of 45° and at a distance of half the building element thickness to the middle of the crack. Borehole depth should be at least 70% of the building element thickness, borehole diameter should correspond to the packers used. Insert packers and fix in place.

Directions

Mixing of the two components:
The two components are pack-aged in a special container in the proper mixing ratio.

The mixture should be produced

according to the DBV Code of Practice "The Use of Reactive Resins in Concrete Construction", part 3.2, "Application of Reactive Resins to Concrete". The entire quantity of the hardener (B) component should be added to the resin (A) component. When smaller quantities are mixed (up to 10 l), use a mixer on a counter-current principle. A drill with a max. speed of 400 rpm can be used as a drive. Mix the material for at least 2 minutes. The larger the quantity to be mixed and/or the more viscous the components, the longer the material must be mixed. Streaks indicate insufficient mixing.

Especially in the case of varying viscous components, the lesser mixed material on the edge and bottom of the container as well as on the mixing tools should be scraped off several times and returned to the mixture.

Afterward, the mixture is filled into a separate container and mixed again. The material is then ready to use.

Directions

Injection with 1-component pump

Fill the mixture in the upper container of the pump and stir briefly.

Injection work should be carried out from the bottom borehole row to the top. Inject until the product flows out of the neighbouring packer.

After the injection resin has hardened, remove the packers and close the boreholes with Remmers Waterproofing Filler or Betofix RM so that an even surface results.

Working Temperature:

Ambient temperature and that of the substrate should not fall below 5 °C. Hardening is accelerated at higher

temperatures, delayed at lower temperatures.

Working Time:

At 12 °C ca. 120 minutes
At 23 °C ca. 100 minutes

Notes on processing

Use up all the mixture within the working time.

Adjust injection pressure according to the consistency of the substrate!

The temperatures of the construction element and of the product influence the reaction speed. The reaction is accelerated at higher temperatures, delayed at lower temperatures.

Mixing ratio

2,3 : 1 by weight

Possible system products

- Thinner V 1011 (art. no. 0978)
- Waterproofing Filler (art. no. 0426)
- Epoxy BH 100 (art. no. 0905, 6360)
- Add TX (art. no. 0942)
- Betofix RM (art. no. 1092)

Personal protective equipment

Suitable nitrile rubber gloves (e.g. Tricotril made by KCL), protective glasses, splash protection, long-sleeved shirt or arm protectors.

Tools, cleaning

Drill with a counter-current mixing, injection equipment, hand lever pump, percussion drill.

Clean tools and any stains immediately while fresh with V 101 Thinner.

1-component pump:

In case of prolonged work interruptions and after completion of work clean with Solvent V 101.

In case of prolonged work interruptions fill the entire pumping system with hydraulic oil.

Observe the Technical Data Sheet / Instructions of the pump!

Notes

All of the values and application rates given above were determined under laboratory conditions (20 °C).

When worked at the building site, these values may deviate slightly.

Delivery form, Application rate, Shelf-life

Delivery form:

1 kg, 7 kg tin can

Application rate:

ca. 1,1 kg per litre void

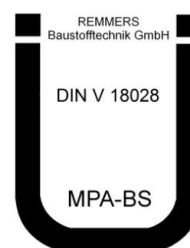
Shelf-life:

At least 24 months in unopened, original containers stored cool but protected from frost.

Safety, ecology, disposal

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

GISCODE RE 1





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EN 1504-5:2004

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Filling material for concrete cracks

Adhesion through adhesive strength	> 2 N/mm ²
Volumetric shrinkage	< 3 %
Glass transition temperature	> 40 °C
Injectability on dry medium	Filling degree > 95 % adhesion > 2 N/mm ² at a crack width of 0,2 mm
Durability	Cohesion failure of the concrete substrate
Corrosion behaviour	It is assumed that no corroding effects exist.



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