

Technical Data Sheet Article No. 6089

Epoxy Crack Fix

Very fast reacting, transparent epoxy resin

Range of use

Crack Fix is an unpigmented, epoxy resin binder for fast, frictionally coupled filling of cracks and false joints on cement screeds and concrete.

Property profile

Transparent, 2-component, liquid, epoxy resin on a bisphenol A/F base:

- Cures very quickly
- Cures thoroughly as of 3 °C
- Good penetration capacity
- Plasticizer-free
- Nonphenol and phenol-free
- Can be subjected to heavy mechanical loads
- Can be subjected to chemical loads

Substrates

The substrate must be load-bearing, form-stable and free of loose material, dust, oil, grease, marks from rubber tyres and other substances that could interfere with adhesion. The tensile strength of the surface of the substrate must be 1.5 N/mm² on average, compressive strength at least 25 N/mm².

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density (25 °C):	1.15 g/cm ³	1.02 g/cm ³	1.10 g/cm ³
Viscosity (25 °C):	600 mPa·s	850 mPa·s	1600 mPa·s
Compressive strength:	≥ 80 N/mm ²		
Flexural tensile strength:	≥ 50 N/mm ²		
Adhesive pull strength:	> 1.5 N/mm ² (concrete failure)		
Pot-life:	approx. 10 min/23 °C		
Working temperature:	≥ 3 °C		
Foot traffic:	60 min/23 °C		
D Shore (2 h/23 °C):	approx. 75		
D Shore (4 h/23 °C):	approx. 80		
D Shore (24 h/23 °C):	approx. 85		
D Shore (7 d/23 °C):	approx. 85		

The substrate must have achieved its compensation moisture balance and be protected from the penetration of moisture from behind, also during utilisation.

- Cement screed max. 6 % by mass

Substrate preparation

The substrate must be prepared by suitable means so that it fulfils the requirements given above.

Preparation of the mixture

Remove the outside packaging along the perforation and take out the transparent, multi-chamber bag. Then remove the dividing strip between the 2-components on the bag. Mix the two components by kneading intensively (approx. 60 sec.).

Directly after kneading, the ready-to-use material is pressed into the crack through the screwed on injection aid (plastic nozzle) and, if required, blinded with quartz sand.

Mixing ratio

70 : 30 parts by weight

Working time

At 20 °C and 60 % relative humidity approx. 10 minutes. Higher temperatures reduce, lower temperatures increase pot-life.

Notes on working

Take suitable protective measures when working (see Personal protective equipment)

Application:

See separate notes on working.

Waiting time:

Waiting times between working operations at 20 °C should be at least 60 min. and max. 1 day. For waiting times longer than 24 hours, the surface of the last working operation must be broadcast with fire-dried quartz sand. The given times are reduced at higher temperatures and increased at lower temperatures.

Working temperature:

The temperature of the material, the air and the substrate must be at least 3 °C and max. 25 °C. Relative humidity should not exceed 80 %. The temperature of the substrate must be at least 3 °C above the dew point temperature.

Drying time:

At 20 °C and 60 % relative humidity: Foot traffic after 1-2 hours, mechanical loads after 2 hours, full loading capacity after 1-2 days. At lower temperatures correspondingly longer.

During the curing process (approx. 24 hours at 20 °C), the applied material should be protected from moisture; otherwise the surface may be disturbed and adhesion may be reduced.

Tools, cleaning

Smoothing trowel or filling knife. Clean tools and any soiling immediately while fresh with V 101 Thinner.

When cleaning, take suitable protective measures (see Personal protective equipment below).

Personal protective equipment

Wear suitable protective gloves (enclosed in the set) and protective glasses. Detailed information is found in our Tool Programme.

Notes

All of the values given above were determined under laboratory conditions (23 °C). When worked at the building site, slight deviations may occur.

The Crack Fix Set has not been tested in accordance with ZTV-Ing or DAfStb and therefore it may only be used in areas that are not regulated.

Epoxy resins are generally not colour-stable when exposed to UV rays and weather.

Further notes on working, system construction and maintenance of the products listed are found in the latest Technical Data Sheets and the Remmers System Recommendations.

Packaging, application rate, shelf-life

Packaging:

0.5 kg epoxy resin (2-component) in a 2-chamber bag
10 screed clamps
1 kg quartz sand
1 pair disposable gloves

Yield:

Depending on the depth of the crack up to 5 running metres per Crack Fix Set.

Shelf-life:

At least 12 months in closed, un-mixed, original containers stored cool but frost-free.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet and the brochure "Epoxy Resins in the Construction Industry and the Environment" issued by Deutsche Bauchemie e. V. (2nd edition as per 2009).

GISCODE: RE 01

Chem VOC Paint V (2004/42/EC):

Group (LB): j
Stage 2 (2010): max. 500 g/l
Stage 1 (2007): max. 550 g/l

This product contains < 500 g/l.

Emergency information:

Mon.-Thurs. from 7:30 a.m. to 4:00 p.m.; Fri. from 7:30 a.m. to 2:00 p.m.

Product Safety Department:

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EN 13813 SR-B1.5-AR1-IR4

Crack Fix

Epoxy resin for frictionally coupled bonding of cracks
(Systems according to Technical Data Sheets)

Behaviour under fire	E _{fl}
Release of corrosive substances	SR
Water permeability	NPD ²⁾
Wear resistance	NPD
Adhesive tensile strength	B1.5
Impact resistance	
Sound insulation	NPD
Sound absorption	NPD
Thermal insulation	NPD
Chemical resistance	NPD

- 1) Determined according to BCA method on smooth covers
- 2) NPD: Characteristic value not determined
- 3) DIN 4102 is still valid in Germany; Fire Class B1 is fulfilled and is comparable to DIN EN 13501-1 Class B_{fl}

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.



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