



IR Epoxy 100

Rigid two-component EP resin for frictional injection into concrete building elements, F-I (P)/F-V (P)

Availability		
Quantity per pallet	200	
Packaging unit	10 x 1 kg	5 kg
Type of container	Tin bucket	Tin bucket
Container code	01	06
Art. no.		
0944	■	■

Application rate



- To be determined on a case-by-case basis, depending on the crack width and component thickness
- Approx. 1.1 kg/l void
- Approx. 0.4-0.7 kg/running metre

Range of use

- Crack injection in concrete according to DIN EN 1504-5
- Classification: U(F1) W(1) (1/2) (8/30)
- Moisture level: DY, DP
- Frictional bonding and joining of components
- Strengthening open-pored concrete structures
- Joining hollow components

Property profile

- Freeze/thaw resistant
- High chemical resistance
- Total solid (Similar to the testing method of Deutsche Bauchemie e.V.)
- Fire behaviour B2 pursuant to DIN 4102-4
- Low viscosity
- Volume and form-locking
- High flank adhesion
- High adhesive pull strength and inherent strength

Characteristic data of the product

■ On delivery

	Component A	Component B	Mixture
Density (20 °C)	1.13 g/cm ³	0.87 g/cm ³	1.07 g/cm ³
Viscosity (25 °C)	300 mPa s	75 mPa s	100 mPa s

■ Once fully cured



Tensile strength	51 N/mm ² *
Adhesive pull strength	7.4 N/mm ² *
Shear strength	16.8 N/mm ² *

* after 7 days at 23 °C

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

➤ [Prüfbericht gemäß DIN EN 1504-5:2004](#)

Possible system products

- [Epoxy BH 100 \(0905\)](#)
- [Add TX \(0942\)](#)
- [Thinner V 101 \(0978\)](#)
- [Remmers injection packers](#)

Preparation

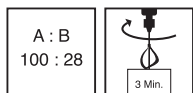
■ **Substrate requirements**

The flanks of the crack must be dimensionally stable and free from loose parts, sintered layers, oils, grease and other separating substances.

■ **Substrate preparation**

Plug the path of the crack if necessary.

Production of the mixture



■ **Combi-container**

Add the entire quantity of the hardener (component B) to the base compound (component A).

Mix thoroughly with a slow-speed electric mixer (approx. 300 - 400 rpm).

Mix for at least 3 minutes.

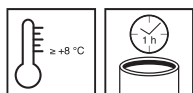
Insufficient mixing is indicated by streaks forming.

Pour the mixture into a separate container and mix again thoroughly.

Mixing ratio (A : B)	100 : 28 parts by weight
	100 : 36 parts by volume

Directions

For professional users only!



■ **Conditions for use**

Temperature of the material, air and substrate: min. 8 °C

■ **Working time (+20 °C)**

Batch size 1 kg

approx. 90 minutes at 8 °C

approx. 60 minutes at 23 °C

approx. 40 minutes at 28 °C

Tips on use

As a general principle, higher temperatures will reduce and lower temperatures will increase the times stated.

Significant increase in viscosity at low temperatures.

Notes

Unless otherwise specified, all of the values and application rates given above have been determined under laboratory conditions (20 °C). Slight deviations from these values may arise if the product is worked with on site.



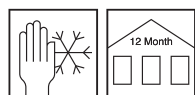
The actual amount of material needed depends on the size of the void. Proceed based on the results of the building condition analysis. Remember that surplus material may be needed depending on the application method.
The current technical regulations must be observed.

Tools / Cleaning

Suitable mixer

More detailed information can be found in the Remmers Tool Programme.
Clean tools, equipment and splashed material immediately while fresh with V 101 Thinner.
Take suitable protective and waste disposal measures when cleaning.

Storage / Shelf life



If stored unopened in the original container and kept cool, dry and protected from frost, min. 12 months (component A)/min. 24 months (component B).

Safety data / Regulations

Further information concerning safety during transport, storage and handling as well as on disposal and ecology can be found in the latest Safety Data Sheet.

Personal protective equipment

This information can be obtained from the current Safety Data Sheets and/or the relevant professional associations.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.



CE marking



1119

Remmers GmbH

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GBIII 150

EN 1504-5:2004

0944

Concrete injection product

U (F1) W (1) (1/2) (8/30)

Adhesion by tensile bond strength:	>3 N/mm ²
Adhesion by slant shear strength:	NPD
Volumetric shrinkage:	< 3 %
Glass transition temperature:	> 40 °C
Injectability into dry medium:	0.1 mm Percentage of crack filled > 90 %
Injectability into non dry medium:	0.1 mm Percentage of crack filled > 90 %
Tensile strength development in polymers:	> 3 N/mm ² within 72 h at the minimum application temperature
Durability:	>2 N/mm ²
Corrosion behaviour:	Deemed to have no corrosive effect

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.