

Product Data Sheet
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KEMINJECT EP

Low viscosity 2-component injection Epoxy

Description

A solvent free, two component low viscosity epoxy resin with a modified cycloaliphatic amine hardener. It serves to strengthen and seal cracks and cavities in concrete, masonry or rocks by injection under

Where to use

It is suitable for rehabilitating shrinkage or settlement cracks, fire damage in concrete, to consolidate rock in tunnel building and mining, to restore buildings, to bond tie rods and to consolidate brick masonry.

Advantages

* It has good flow properties and penetrates the finest cracks and fissures.

* The excellent adhesion to concrete, masonry, stone or metals enables concrete, concrete-steel or stones to be force - locked to one another.

* Exhibits the well – known, good long - term behavior of epoxy resins with respect to aging water and weather.

* This injection system can be injected at low temperatures and the presence of moisture.

* The system can still be dispensed by injection equipment at a working temperature of + 50°C and hardens satisfactorily in the presence of moisture.

Note , however, that running water cannot be sealed off because it will flush away any uncured, still liquid resin.



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Properties

Gel time (at 23°C)	45 min	
Hardening	7 days	Time/°C
		/ 20°C
Flexural strength (DIN 53452)	50	N/mm ²
Deflection	> 25	KJ / M ²
mpact strength (DIN53453)	50	N / mm ²
Tensile strength (DIN 53455)	25-40	N / mm ²
(DIN 53455)	2400	N / mm ²
Modulus of elasticity		

Bond strength to concrete	23°C	5°C
	N/mm ²	N/mm ²
Dry 1 day	7.0	5.0
3 day	7.5	6.5
7 day	8.0	7.9
Damp 1 day	2.5	1.0
3 day	3.0	2.7
7 day	4.0	4.3
Bond strength to steel at20C (DIN 53483)	20	N/mm ²
Water absorption (DIN 53475)	24h. cold	30 min. 100° C
	34 mg	44 mg.

How to use

Mixing :

- Mixing of KEMINJECT EP should be carried out as follows:
- The entire contents of the hardener should be poured into the resin container and mixed until homogenous colour is obtained.

Application:

Application methods are various depending on the nature of the work to be carried out . it is advisable to contact our technical department for assistance

- Max. crack width to be injected is 10 mm.
- Min. temperature of concrete to be injected is +5°C.
- Max permissible substrate temperature is +30°C.

Cleaning:

Tools can be cleaned with a suitable solvent (e.g. xylene) to remove the non cured mortar.

Theoretical Coverage:

1.1 kg/litre.

Packaging :

1,5 kg units of 2 component (A+B).

Storage:

KEMINJECT EP has a shelf life of 12 month in recommended conditions.
pressure or by sealing.

Health and Safety

- Some people are sensitive to epoxy resin so gloves and a barrier cream should be used when handling these products.
- If contact with the resin occurs, it must be removed before it hardens with soap and water.
- Do not use solvents, the use of goggles is recommended but if accidental eye contamination occur, wash thoroughly with plenty of running water and seek medical treatment immediately.