



Product Data Sheet
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KEMINJECT EP

Low Viscosity Two Component Injection Epoxy

Description

KEMINJECT EP is 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 pressure or by sealing.

KEMINJECT EP may be placed by free flow under gravity or may be injected using a suitable hand or mechanical pump.

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

KEMINJECT EP provides the following 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.

Properties

Gel time (at 23°C)	45 min
Hardening	7 days 23°C
Flexural strength (DIN 53452)	50 N/mm ²
Deflection	> 25 KJ / M ²
Compressive strength (DIN53453)	50 N / mm ²
Tensile strength (DIN 53455)	25-30 N / mm ²
(DIN 53455) Modulus of elasticity	1100 N / mm ²

	23°C	5°C
	N/mm ²	N/mm ²
Bond strength to concrete		
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 at 20C (DIN 53483)	20	N/mm ²
Water absorption (DIN 53475)	24h. cold 34 mg	30 min. 100° C 44 mg.

How to use

Surface preparation:

- The substrate must be firm, clean, dry and free from all contamination.
- All loose particles and excess laitance should be removed by mechanical or chemical methods.

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 Color is obtained.
- Packs have been designed to produce practical and economic volumes of grout.
- Do not attempt to mix partial components.

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 5 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/liter.

Packaging:

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

Shelf life & 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.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** extends technical services to include after sales support to assist users in a proper handling of our products.