

Keminject EP

Low Viscosity Two Components Injection Epoxy

Description	Keminject EP is a solvent-free, two components 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 structure, shrinkage or settlement cracks, and fire damage in concrete, consolidating rock in tunnel building and mining, restoring buildings, bonding tie rods, and consolidating brick masonry	
Advantages	<ul style="list-style-type: none"> • 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 in 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 @ 23 °C	45 min	
Hardening	7 days 23°C	
Flexural strength	50 N/mm ²	
Deflection	> 25 KJ / M ²	
Compressive strength	30 N / mm ²	
Tensile strength	25 - 30 N / mm ²	
Modulus of elasticity	1100 N / mm ²	
Bond strength to concrete	23°C	5°C
	N/mm ²	N/mm ²
Dry 1 day	7	5
3 days	7.5	6.5
7 days	9.5	7.9
Damp 1 day	2.5	1
3 days	3	2.7
7 days	4	4.3
Bond strength to steel @ 20 °C	20 N/mm ²	
Water absorption	24h.	30 min.
	Cold 34 mg	100 °C 44 mg

Surface Preparation	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • The entire contents of the hardeners should be poured into the resin container and mixed until a homogenous color is obtained • Packs have been designed to produce practical and economic volumes of grout • Do not attempt to mix partial components
Application	<ul style="list-style-type: none"> • 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
Theoretical coverage	1.1 Kg / Liter
Packaging	1 Kg units of 2 components (A+B) 5 Kg units of 2 components (A+B)
Shelf Life & Storage	Keminject EP has a shelf life of 12 months in recommended conditions. pressure or by sealing
Cleaning	Tools can be cleaned with a suitable solvent (e.g. xylene) to remove the non-cured resin
Health and Safety	<ul style="list-style-type: none"> • 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	<p>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</p> <p>PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction.</p> <p>PROKEM reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale & delivery</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products</p>