



MAXEPOX[®] INJECTION - R

LOW VISCOSITY EPOXY FORMULATION FOR INJECTIONS AT LOW TEMPERATURES

DESCRIPTION

MAXEPOX INJECTION –R is an epoxy formulation of very low viscosity, for pouring or injecting under pressure and curing at low temperatures.

USES

- Injection of fissures, cracks, etc. in concrete.
- Impregnation by pouring of concrete, wood, ceramic, etc. with high porosity.
- Injection or pouring in holes between concrete and reinforcing steel plates, etc.
- Anchorage and fixing of metallic elements in concrete, stone, etc.

ADVANTAGES

- Very low viscosity and adequate reaction speed, even at low temperatures.
- Depending on the application, it admits the addition of aggregates for greater economy.

APPLICATION INSTRUCTIONS

Mixing: The components are supplied in pre-weighed sets, and can be used as supplied for direct injections. Quartz aggregates can also be added at a ratio of 1 / 3 parts of resin mix / aggregate. This proportion will depend on the type of application and the difficulty of doing the injection under pressure or placing by pouring.

By request, and for jobs that require large amounts of material, it can also be supplied in bulk. In this case, for jobs where dosage is done on site, the proportions for the components indicated by weight in the technical data table must be expressly maintained.

The hardener, component B, is poured into the resin, component A. Make sure to pour all of component B, to ensure a proper reaction. Mix both components manually or with a low speed mixing drill, until a homogeneous product is achieved, both in colour and appearance.

Application: It can be done either by pouring or with appropriate injection equipment. In any case, the viscosity of the system, and consequently, the application possibilities are subject to manifest variations depending on the temperature. MAXEPOX INJECTION – R is thicker, and consequently less workable the lower the temperature. Applications can not be carried out below 5 °C, because the hardening of the system will not occur.

Bearing in mind the high reactivity of the system, at temperatures above 20°C it is advised to use MAXEPOX INJECTION (for curing at ambient temperature) or use a two component injection pump is such is the application method.

Cleaning: Working tools or stains with this product can be cleaned using MAXEPOX SOLVENT before hardening.

PACKAGING

MAXEPOX INJECTION is supplied in pre-weighed sets of 1 or 2 Kg.

STORAGE

One year when stored in air-tight containers in a temperate and dry place, avoiding temperatures below 5 °C and direct sun exposure.

Prolonged storage and temperatures below 5 °C produce the crystallising of the product. Should this happen, in order to return the product to normal conditions it must be heated between 80 and 90 °C while being regularly stirred.

CAUTION

Avoid contact with the skin, mucous membranes, etc. Do not inhale vapours produced during heating or combustion. Observe the usual precautions necessary for the application of this type of products. Use gloves and safety goggles during the applications. Stains in the skin shall be cleaned immediately with soap and water. Do not use solvents.

TECHNICAL DATA

PROPERTIES OF THE COMPONENTS				
Proportion of the components A:B (by weight)				3.33 : 1
Proportion of resin : aggregates (max)				1 : 3
Density component A (gr/cm³)				1.1
Density component B (gr/cm³)				0.9
PROPERTIES OF THE MIX				
Density at 25 °C (gr/cm³)				1.0
Viscosity at 25 °C (cPs)				280
Pot life of 100 gr. at 10 / 20 °C (minutes)				20 / 10
Exothermic heat 100 gr. (°C)				200
Contraction after reaction (volume / linear)				0.55 / 0.18
Compressive strength (kp/cm²)				
	20 °C	2 ½ hours		410
	5 °C	16 hours		640
	20 °C	7 days		1100
Flexural strength (kp/cm²)				
	20 °C	2 ½ hours		180 (plastic)
	5 °C	16 hours		270
	20 °C	7 days		400
Elasticity modulus at 20 °C, 7 days (kp/cm²)				175,000
Critical temperature (°C)				60
Linear expansion coefficient (cm/°C)				$75 \cdot 10^{-6}$
Adhesion to dry concrete				Good (break in concrete)
Adhesion to damp concrete				Good (break in concrete)
Resistance to chemical attack				Excellent
Resistance to water				Excellent

GUARANTEE

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