

IPM EPOXY KIT SEMI-FLUID

Semi-fluid epoxy for structural injections

DESCRIPTION

Ipm Epoxy Kit Semi-fluid Isoplam® is a structural adhesive in a cartridge based on bicomponent epoxy resins without solvents.

FIELDS OF EMPLOYMENT

It is used as:

- structural consolidator for cracks, fissures and lesions with a width of between 1 and 3 mm in flooring and in building constructions in general;
- adhesive for bonding stone or marble elements (steps, thresholds ...), wood, tuff ...
- structural bonding of steel plates to the reinforced concrete support (beton plaquet).

FEATURES

Its slightly thixotropic consistency, when subjected to injection pressure, permits the mixture of the Semi-Fluid Epoxy Kit Isoplam® to have a low viscosity, while, when it is in a quiet state, it returns pasty. When injected it is able to penetrate into narrow slits and is easily workable; it thickens then and congeals itself without dripping.

The product guarantees high mechanical properties and excellent adhesion on heterogeneous substrates.

The kit is easy to use: the two components are already pre-set in a separate chamber cartridge; it can easily be applied with a handgun or compressed air and, where required, with a brush or spatula, without the worker ever coming into contact with the product.

SUPPORT PREPARATION

The support must be clean, free of non-cohesive and crumbly parts, dust and cement grout. If possible, sand the part to be treated or at least use a bristle brush or brushhammer.

In presence of cracks, it is advisable to open them as much as possible, removing the friable parts with abrasive disk and scraper and remove residual dust.

Remove oils, greases and varnishes and rust (in case of metal supports) by sandblasting.

Fix the nipples to the support at a distance of 20-30 cm from each other by means of Ipm Epoxy Kit Tixo Isoplam® taking care to seal them to the support. Make harden for about 6-12 hours depending on the temperature.

WAY OF USE

Ipm Epoxy Kit Semifluid Isoplam® is composed of a cartridge with inside the product, an injection tube, non-return valves (nipples) and a vent.

Mix the two components of the cartridge by puncturing the aluminum seal on the head and slowly insert the stirrer rod to the stop point. Screw the rod by turning it clockwise and slowly push it up to the bottom of the cartridge. Move the rod back and forth for at least 3-4 minutes. Remove the rod by turning counter-clockwise.

Insert the cartridge into the gun, connect the injection tube to the nipple placed at the lowest injection point and fix it well with the ring nut. Insert a vent in a subsequent nipple and begin to extrude the product. Once the resin appears from the upper nipple, detach the injection tube and connect it the same way to the next nipple. Continue in the same way until the slot is completely filled. After a few minutes repeat the same operation to reintegrate the amount absorbed by the support.

After hardening (about 12 hours at least), remove the nipples and the residues of IPM Epoxy resin Kit Tixo Isoplam® with an abrasive disc.

Complete hardening occurs after 7 days.

Do not use in blind slits and stone walls because the product will disperse by leaking.

After mixing the components, the content of the cartridge must be totally used: the time available for use is limited and depends on the temperature.

Clean the tools with alcohol.

CONSUMPTION

With a 250 ml (300 g) cartridge of Ipm Epoxy Semi-Fluid Isoplam® Kit it is possible to fill a volume of 0,25 dm³.

TECHNICAL FEATURES

Viscosity (at 20 °C)	4000-6000 cP
Specific weight (at 25 °C)	1,45 kg/dm ³
<i>Curing characteristics after 7 days at 25 ° C</i>	
Compressive strength	>85 N/mm ²
Traction strength	20 N/mm ²
Breaking elongation	0,3%
Flexibility resistance	50 N/mm ²
Modulus of tensile elasticity	9000 N/mm ²
Adhesion on dry concrete class C25/30	>4,5 N/mm ²
Adhesion on wet concrete class C25/30	>2,8 N/mm ²
Adhesion on steel	3 N/mm ²

CONSERVATION, EXPIRATION, GUARANTEE AND SECURITY

The cartridges must be kept upright and sealed. Ipm Epoxy Semifluid Kit Isoplam® is stored for 18 months if kept in an enclosed and sheltered area at a temperature between 10 and 30 °C. Consult the Product Safety Data Sheet before use.

IMPORTANT

The IPM EPOXY KIT SEMIFLUID product is formulated to be used as in the application above. Adding any other product compromises the final result.

All information contained in this sheet is based on the best practical and laboratory experiences. It is the customer's responsibility to verify that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications. It is advisable to always make tests on small surfaces before application. Data can be changed at any time. This sheet replaces and cancels previous ones.

IPM EPOXY KIT SEMIFLUID is intended for professional use.