

IPAPOX IH/E

Very Low-Viscosity Injection Resin Suitable for Grouting and Sealing Hairline Cracks.

Product Specifications:

IPAPOX IH/E is a modified, solvent-free 2-component epoxy resin of very low viscosity.

Areas of Application:

- Adherence-actuated grouting of cracks less than 0,3 mm wide
- Adherence-actuated grouting of cracks in structural members characterized by a low level of natural strength and unsuitable for applying higher injection pressures
- Adherence-actuated grouting of dynamically loaded structural members
- Consolidation of porous building materials by largesurface injection
- Brush sealing of shrinkage and hairline cracks in screed surfaces
- Priming coats preparatory to special applications of solvent-free IPAPOX FBand IPAPOX B/DB coating resins.

Action (Properties):

Upon mixing, the components will cure into a hornlike, thermoset plastic material characterized by high pressure, Flexural, adhesion strength, and shear resistance values.

Thanks to its special formulation, IPAPOX IH/E will adhere almost equally well to dry and moist substrates. Thanks to its extremely low viscosity, IPAPOX IH/E penetrates very well into 0,03 mm wide cracks , being thus particularly suitable for low-Pressure injection on a filigree pattern in low-strength structural members.

Test Certificates:

Test Report no. 8059a, drawn up by Munich Technical University

Processing Notes:

Use a power mixer to mix master resin (comp. I) and hardener (comp. II) in the (weight or volume) ratio indicated.

Technical Data:

Material:	solvent-free, modified, 2-component epoxy resin
Appearance:	honey-colored, transparent, very low viscose resin
Viscosity:	approx. 170 mPas
Density (at +20oC) :	component I: 1.14 kg/ltr. component II: 0.92 kg/ltr. mixture: 1.08 kg/ltr.
Mixing Ratio:	comp. I : comp. II
parts p. weight	3 : 1
parts p. vol.	2.5 :1
Processing Time (pot life)	approx. 1 hour at +20°C, assuming 1 kg of resin
Processing Temperature: (temperature of substrate)	not below 0° C
Curing(at +20oC):	ready to be walked on after 12 hours, final strength after 7 days
Elongation at Rupture:	approx. 25 %
Storage:	keep dry, protect against direct insolation
Shelf Life:	1 year within unopened container
Supplied In:	containers holding 1.2 kg or 12 kgs

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Injections:

We recommend the following procedure for injecting dry

and moist cracks: Determine orientation of crack or cracks Alternatingly place 13 mm dia. drillholes at either side of crack so as to pierce it as centrally as possible;

space drillholes approx. 15-20 cm

Using an air gun, blow out the drilling fines.

Fill cracks more than 0.3 mm wide using IPATOP SM or IPA cement filler (adding suitably adjusted epoxy filler as required).

Tension the 13 mm Revolta valves or IPA threaded packers.

Screw check valve nipple on to the lowest valve and use an IPA high-pressure injection system to inject premixed

IPAPOX IH/E until resin appears at the open injection valve above it.

Screw check nipple on to the next threaded tube and continue injecting.

Once the top valve has been reached, reinject all valves once more; immediately remove any resin protruding.

Conclude any injection job by taking the check nipples off the Revolta valves, inserting the plastic plugs and, if necessary, neatly filling the drillholes.

Note:

By means of IPA injection systems, numerous construction engineering problems can be solved.

However, procedures and materials to be used have to be adapted to any individual case. Call upon our Field Service and our Applications department.

Priming:

Substrates have to be clean, solid, and free of dust, oil or grease. Uniformly brush, roll or spray the prepared material on to any surface to be treated. After approx. 8 to 24 hours, apply the first coat any coating system that is to follow.

Sealing Shrinkage and Alligating Cracks:

Brush, drip or pour material into the cracks until they are completely saturated. Repeat the procedure after approx. 12 - 24 hours so as to compensate for any material lost into the substrate due to capillary suction.

Please Note:

Use IPAPOX cleaning agent to clean tools and equipment.

Safety Recommendations:

IPAPOX IH/E's component II is corrosive!

Observe all protective measures prescribed by any competent social insurance association against occupational hazards in the chemical industry. Use gloves and protective goggles. Avoid any contact between the product and your skin. For improved protection, apply cream to your hands. Use a good deal of water to wash away any splashes of material reaching your skin or an eye; after-wards, immediately consult a physician.

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