

## IPAPUR IF

### PUR Injection grout for elastic sealing of cracks in concrete structures

#### Product Specifications:

IPAPUR IF is a two component polyurethane resin consisting of a polyol component and a selected type of isocyanate. IPAPUR IF is based on polyether polyols. By means of a special SPECIAL FORMULATION IPAPUR IF is dried to avoid all foaming during the reaction with the component II. After mixing the components an exothermal reaction starts from which a solid end product is obtained. IPAPUR IF is delivered with a processing time (1 l sample at 20°C) of 90 min. The reaction time of IPAPUR IF can be accelerated by IPA Pu ACCELERATOR.

#### Characteristics:

Solvent and filler free Outstanding resistance to water  
Low viscosity Very good flexibility Physiologically harmless

#### Areas of Application:

IPAPUR IF injected into wet and dry concrete cracks for a permanently elastic sealing by one or two component injection machines. Classification Acc. to DIN EN 1504-5: U (D1) W (2) (2) (6, 35)

#### Processing Notes:

IPAPUR IF with IPAPUR VM is a complete system, ideally suited for the elastic sealing of cracks and breaks in concrete and brick structures as well as other areas suffering from water leakage problems.  
If a leakage of water has to be stopped IPAPUR IF should be applied in combination with IPAPUR VM a so-called waterstop system.  
IPAPUR VM will first locate the water and react it away, after which the injection of IPAPUR IF can be carried out.

#### Injections:

##### Mixing Instructions:

Thoroughly and homogeneously mix components I and II.

In the process, take the utmost care to prevent any water

from dropping into the mixing container.

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, IPA cement filler or epoxy filler.- Tension the 13 mm Revolva 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
- IPAPUR IF 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 Revolva valves, inserting the plastic plugs and, if necessary, neatly filling the drillholes.

#### Technical Data

<b>Density (at +20oC):</b>	component I:: 1.05 kg/ltr. component II:: 1.18 kg/ltr. mixture:: 1.08 kg/ltr.
<b>Mixing Ratio:</b>	comp. I : comp. II
<b>parts p. weight</b>	4,5 : 1
<b>parts p. vol.</b>	5 : 1
<b>Colour</b>	yellow dark brown
<b>Viscosity of the mixture</b>	
<b>at 8°C</b>	mPas 400...600
<b>at 15°C</b>	mPas 250...350
<b>at 25°C</b>	mPas 150...170
<b>Application temperatures</b>	Min 6°C max 35°C
<b>Potlife (1 l sample at 20°C)</b>	Minutes 90

#### 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.

#### INSTRUCTIONS FOR USE

To prevent condensation on the liquids, at the start of the operation the temperature of the components should be adjusted to the ambient temperature (20...25°C).

#### Safety Recommendations:

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; afterwards, immediately consult a physician.

#### MECHANICAL AND PHYSICAL PROPERTIES OF THE END PRODUCT

PROPERTY	ACCORDING TO	DIMENSION	VALUE
Elonggation at break	ASTM D 638	%	10%
Shore hardness	Din 53505		40 -- 50 A
Storage:	keep dry, protect against direct insolation		
Shelf Life:	1 year within unopened container		
Supplied In:	plastic containers holding 12,2kgs		

Version 11/18