IPA Bauchemische Produkte GmbH
A Stable Solution

IPAPUR IF NV 100

PUR Injection grout for elastic sealing of cracks in concrete structures

Product Specifications:

IPAPUR IF NV 100 is a two component polyurethane resin consisting of a polyol component and a selected type of isocyanate. IPAPUR IF NV 100 is based on polyether polyols . By means of a special SPECIAL FORMULATION IPAPUR IF NV 100 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 NV 100 is delivered with a processing time (1 l sample at 20°C) of 90 min. The reaction time of IPAPUR IF NV 100 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 NV 100 injected into wet and dry concrete cracks for a permanently elastic sealing by one or two component injection machines.

Processing Notes:

IPAPUR IF NV 100 with IPAPUR VM is a complete system, ideally suited for the elastic sealing of cracks and breaks in concrete and brick structures as well at other areas suffering from water leakage problems.
If a leakage of water has to be stopped IPAPUR IF NV 100 should be applied in combination with IPAPUR VM a so-called water stop system. IPAPUR VM will first locate the water and react it away, after which the injection of IPAPUR IF NV 100 can be carried out

Technical Data:

Density (at +20oC):			
component I		1.02 kg/ltr.	
component II		1,13 kg/ltr.	
mixture		1.07 kg/ltr.	
Mixing Ratio:		comp. I	comp. II
parts p. weight		0,9	1
parts p. vol.		1	1
Colour		yellow	dark brown
Viscosity of the mixture			
at 8°C		mPas 400...600	
at 15°C		mPas 250...350	
at 25°C		mPas 100	
Pot life (1 l sample at 20°C)		Minutes 120	
MECHANICAL AND PHYSICAL PROPERTIES OF THE END PRODUCT			
PROPERTY	**ACCORDING TO**	**DIMENSION**	**VALUE**
Tensile strength	ASTM D 638	N/mm²	1.2
Elongation at break	ASTM D 638	%	90 --
Modulus of elasticity	DIN 53457	N/mm²	4.0
Shore hardness	Din 53505		50 A
Adhesive strength to concrete.			1,2. N/mm²
Storage:		keep dry, protect against direct insulation	
Shelf Life:		1 year within unopened container	
Supplied In:		plastic containers holding 10kgs or 40kgs	

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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
- Alternating place 13 mm dia. drill holes at either side of crack so as to pierce it as centrally as possible; space drill holes 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 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 IPAPUR IF NV 100 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 drill holes.

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.

Any advice we provide in writing or by word of mouth is intended to support your own efforts. It is to be understood as non-binding.
Product descriptions imply no representation as to liability for damage, if any. Should there be any question of liability, it will be limited.
in respect of any damage, to the value of any goods supplied and used.

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