

IPAPUR VM

Low viscose, elastic, foaming Pu Injection Resin Used To Seal Water-Bearing moving cracks and joints

Product Specifications:

IPAPUR VM is a low-viscosity 2-component (Resin and catalyst) polyurethane resin that (after mixing resin and catalyst) will foam after encountering water, thus forming plugs wherever required. The reaction time can be adjusted by the catalyst.

Areas of Application:

Injecting water-logged cracks and cavities so as to stop the passage of any water that may be present.

Action (Properties):

After mixing the two components (resin and catalyst) Ipapur VM will expand into a sealing foam plug whenever it comes in contact to water. Depending upon pressures, temperatures, and the quantities of water available, the resin injected will expand to 20 - 30 times its initial volume. Thus, the material will be driven into all cracks and cavities. Owing to its long pot life and to the fact that it will not foam nor cure except upon contact with water, this material can be processed, without any hesitation, using a single-component pump.

Processing Notes

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.

Sealing Cracks/Defects Subject To Pressurized Or

Inrushing Water:

- Determine and mark orientation of cracks. Drill 13 mm holes on alternating sides along the crack, spacing them (depending upon crack width) every 15 - 20 cm and angling them approx. 45 ° so as to have the boreholes pierce the crack at points corresponding to about half the thickness of the wall.
- Use pressurized water or an air gun to flush or blow drilling fines out of the holes.
- Fill cracks having a width of more than 0,5 mm. To do so, use IPA Betonspachtel or IPA Unimörtel Rapid; with highly water-logged cracks use Ipanex Stopfmörtel,
- Assemble and tension the 13 mm dia. threaded packers.
- Once the filler has cured, place a check valve on to the lowest valve and start injecting after mixing the resin and catalyst thoroughly to a homogeneous mixture for at least 3min.

- Begin by injecting IPAPUR VM, which will foam if in contact with water, using a IPA high-pressure injection pump to do so.

Caution:

Even though the material itself has a sufficiently long pot life, a solid skin may form on its surface due to the influence of ambient humidity. Once this layer has been pierced, the remaining mixture can be used, its quality being unimpaired.

Use IPA cleaning agent to remove any residues remaining on tooling and equipment.

Safety Recommendations:

IPAPUR VM catalyst component is irritant! 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.

Technical Data:

Material:	low-viscosity 2-component polyurethane foaming resin
Appearance:	yellowish-brown liquid
Viscosity:	approx. 270 mPas at 23°C
Density (at +20°C):	
component I:	1.18 kg/ltr.
Catalyst :	1.0 kg/ltr.
mixture:	1.08 kg/ltr.
Pot Life:	45 minutes at +20°C and at 65 % of rel. humidity
Processing Temperature:	not below 0° C
Starting Time:	approx. 30 s after contact to water, Starting time can be accelerated by adding catalyst
Storage:	dry
Shelf Life:	in an airtight container, one year
Supplied In:	Resin: Cans having 30kgs or drum having 250kgs
	Catalyst: Cans having 25kgs

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IPA Bauchemische Produkte GmbH Riedhof 5 - 82544 Egling - Tel. 08171-9990600 - Fax 08171-99906020 -
E-mail: info@IPA.de Internet: www.ipa.de oder www.ipanex.de