

ArmGrout Inject PU4

(Formerly known as MYK AQUAFIN®- P4 (I))

Elastic polyurethane injection resin

Product Description

ArmGrout Inject PU4 is a solvent-free thin liquid, two- Component polyurethane resin.

ArmGrout Inject PU4 is slow reacting and hardens to a non-foaming, non-rigid, pore free material which slightly foams when put into contact with water. ArmGrout Inject PU4 bonds to a dry, moist surface and offers an excellent adhesion and tears resistance. ArmGrout Inject PU4 has a low glass transition temperature and resists to winter temperatures without causing embrittlement and widening of cracks due to low temperatures without tearing.

Uses

ArmGrout Inject PU4 is used for the close, waterproofing and elastic connection of cracks, joints and cavities in construction made of concrete, natural stone or bricks.

ArmGrout Inject PU4 is suitable for the waterproofing of car parks, concrete tanks, tunnel linings, construction joints, furthermore, for the waterproofing injection using injection hoses.

Due to its mix ratio of 2:1 parts by volume

ArmGrout Inject PU4 is perfectly suited for the ArmGrout Inject PU4 can be injected via packers or embedded injection hoses.

Features and Benefits

- Non foaming & non rigid
- Excellent adhesion
- Bonds to even dry surface
- Permanently elastic, can absorb limited movements
- No shrinkage in subsequent dry conditions
- Due to its low viscosity it can penetrate into cracks >0.2 mm in width
- ArmGrout Inject PU4 is inert and chemically-resistant
- Solvent-free
- Can be injected as a one component system

Application Methodology

Instruction for Use:

Component A (polyol) and component B (isocyanate) are already supplied in correct mix ratio. The B-component is added to the A-component. The hardener has to be completely emptied into the A-component. The two components are mixed with a mixer at approx. 300 Rpm (for example drilling machine with mixer). It is important that the mixture is also stirred thoroughly from the walls and the bottom. It is mixed until a homogenous mass is achieved; the two components are to be mixed quickly.

Processing Tools:

Hand lever press, foot lever press, 1 component pump (Airless or piston pump) or 2-component pump (working with the 2-component pump requires the use of the metal special mixer when correct product quality is to be guaranteed).

Cleaning of the Tools:

The tools have to be cleaned properly immediately after use. They are to be cleaned thoroughly with the cleaning agent FloArmToolClean. After work has finished or in cases of longer interruptions the injection equipment is to be cleaned. Material must not dry out in the equipment and plug up vital machine components. The cleaning resp. solvent agent has to have a flash point exceeding +21°C; we recommend the use of FloArmToolClean (see technical data sheet).

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TECHNICAL DATA SHEET

The procedure is as follows:

- Pump off the remaining injection material out of the injection unit
- Rinse the top container with FloArmToolClean
- Clean the injection pump, the top container and the tubes for 5 to 10 minutes with FloArmToolClean in circulation.
- Afterwards pump the cleaning mixture into a container and rinse again with FloArmToolClean.
- In case of longer resting times the pump, the top container and the tubes have to be filled with the flushing oil.

Before the injection unit is used again the oil has to be removed

Physiological Behaviour and Protective Measures:

ArmGrout Inject PU4 is physically harmless after complete hardening.

The liquid component is harmful; Symbol Xn. In any case the general protective regulations of the occupational association vocational league, the leaflet M044 and the instructions on the bins are to be adhered to have to be regarded.

Consumption

Generally, the mixed injection resin is injected via boreholes and packers into the cracks to be waterproofed, until the material comes out of the control holes

Example:

- Existing cracks (crack width approx. 0.2 mm) have to be bored in a distance of approx. 20 to 30 cm.
- The boreholes have to be cleaned with oil free pressure air from the dust.
- Place the injection packers
- If required pre-isolate the packers and the crack zone on the surface, for example with ReArm TBA 2540. Strip width: approx. 15 cms, Consumption: approx. 300 g/m².
- After hardening at the crack insulation inject the thoroughly mixed ArmGrout Inject PU4 with suitable press. Vertical cracks: begin injecting from the bottom. Horizontal cracks: start the injection from the left side.

Consumption: approx. 1000 g/l.

Technical Data

Basis	Polyurethane resin
Mix ratio	2 :1 parts by volume
Density	Comp. A at +23°C 1.050 ± 15 g/ml Comp. B at +23°C 1.122 ± 15 g/ml
Mix viscosity at +25°C:	190 ± 50 mPa·S
Processing times at +25°C	25 - 35 minutes
Processing temperature	Between 12 - 40° C
Gelling time/ hardening time	13.0 ± 1.0 h @+25° C
Shore-A-Hardness	60 - 70
Tensile strength (acc. To ASTM D 623)	Approx. 2 MPa
Elongation (acc. To ASTM D 623)	60 – 80%



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Packaging

ArmGrout Inject PU4 is supplied in packs of 5.0 kg (3.15 kg A-component and 1.85 kg B-component)

Storage and Shelf Life

12 months in closed original packs, in a cool and dry place between 10 and 30°C. Storage has to be affected in accordance with the regulations for the storage of water hazardous substances.

Health & Safety

ArmGrout Inject PU4 is nontoxic and non-flammable in nature. However, normal safety gadgets like goggles, gloves should be used while handling the material. Avoid breathing of vapours, when it contacts with skin, should be cleaned immediately. Seek medical advice in case of contact with eyes.



TECHNICAL DATA SHEET

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. the proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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