

MYK AQUAFIN® - P4

Elastic polyurethane injection resin

Properties:

MYK AQUAFIN-P4 is a solvent-free thin liquid, two-component polyurethane resin. MYK AQUAFIN-P4 is slow-reacting and hardens to a non-foaming, non-rigid, pore-free material which slightly foams when put into contact with water. MYK AQUAFIN-P4 bonds to a dry, moist surface and offers an excellent adhesion and tear resistance. MYK AQUAFIN-P4 has a low glass transition temperature and resists to winter temperatures without causing embrittlement and widening of cracks due to low temperatures without tearing.

Application areas:

MYK AQUAFIN-P4 is used for the close, waterproofing and elastic connection of cracks, joints and cavities in construction made of concrete, natural stone or bricks. MYK AQUAFIN-P4 is suitable for the waterproofing of car parks, concrete tanks, tunnel linings, construction joints, furthermore, for the waterproofing injection using injection hoses, MYK AQUAFIN-CJ1 and MYK AQUAFIN-CJ2 in concreting joints.

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

MYK AQUAFIN-P4 is perfectly suited for the injection with the two-component-pump. MYK AQUAFIN-P4 can be injected via packers or embedded injection hoses MYK AQUAFIN-CJ1 and MYK AQUAFIN-CJ2. The evaluation report of the KTW for small-area waterproofings is available.

Technical Data:

Basis:	Polyurethane resin
Mix ratio:	1:1 parts by volume
Density:	Comp. A at +23° C 0.975 ± 15 g/ml Comp. B at +23° C 1.122 ± 15 g/ml
Mix viscosity:	At +8° C: 450 ± 75 mPa·S At +18° C: 280 ± 60 mPa·S At +23° C: 190 ± 50 mPa·S
Processing times:	At +8° C: 50 – 60 minutes At +15° C: 40 – 50 minutes At +23° C: 25 – 35 minutes

Processing temperature: between 6 - 40° C

Gelling time/

hardening time:

At +8° C: 17.5 ± 2.0 h

At +15° C: 15.0 ± 1.5 h

At +23° C: 13.0 ± 1.0 h

Shore-A-Hardness: 60 – 70

Tensile strength (acc. To DIN 53455) approx. 3 MPa.

Elongation (acc. To DIN 53455) 110 – 150 %.

Cleaning of the tools:

The tools have to be cleaned properly immediately after use. They are to be cleaned thoroughly with the cleaning agent ASO-R006. After work has finished or in case 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 ASO-R006 (see technical data sheet).

The procedure is as follows:

- Pump off the remaining injection material out of the injection unit
- Rinse the top container with ASO-R006
- Clean the injection pump, the top container and the tubes for 5 to 10 minutes with ASO-R006 in circulation.
- Afterwards pump the cleaning mixture into a container and rinse again with ASO-R006.
- In case of longer resting times the pump, the top container and the tubes have to be filled with the flushing oil ASO-R007.
- Before the injection unit is used again the oil has to be removed.

Supplied in:

MYK AQUAFIN-P4 is supplied in packs of 2.20 kg (1.00 kg A-component and 1.20 kg B-component)

10.5 kg (5.00 kg A-component and 5.50 kg B-component) and 21 kg (10.00 kg A-component and 11.kg B-component)

Component A and component B are supplied in the correct mix ratio.

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Storage:

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

Surface condition:

The following criteria are to be fulfilled:

Cement bond surfaces

Quality of the concrete: at least B 25

Quality of the screed: at least ZE 30

Quality of the plaster: P III

Age: at least 28 days

Tensile strength: $> = 1.5 \text{ N/mm}^2$

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).

Application method/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 oilfree 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 MYK ASODUR-EK98. Strip width: approx. 15 cms, consumption: approx. 300 g/m².
- After hardening at the crack insulation inject the thoroughly mixed MYK AQUAFIN-P4 with suitable press. Vertical cracks: begin injecting from the bottom. Horizontal cracks: start the injection from the left side. Consumption: approx. 1000 g/l.

If necessary, remove the injection packers after thorough hardening of MYK AQUAFIN-P4 and close the boreholes with MYK ASOCRET-RN.

Physiological Behaviour and Protective Measures:

MYK ASODUR-P4 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 M 044 and the instructions on the bins are to be adhered to have to be regarded.

Important notes:

Areas which are not to be treated have to be protected against MYK AQUAFIN-P4. Applications which are not expressly stated in this data sheet may only be done after having contacted our technical department and after having received their written confirmation.

Disposal: Liquid remainders: EAK 08 01 11 paints and lacquers containing organic solvents or other dangerous substances. Hardened product remainders: EAK 17 02 03 plastics.

See current European Materials Safety Data Sheet. (MSDS)

GISCODE: RU40