

MYK AQUAFIN® - P1

Injection resin for the waterproofing of water-bearing cracks

Properties:

MYK AQUAFIN-P1 is a highly reactive, one component modified isocyanate. MYK AQUAFIN-P1 is ready to use without mixing. MYK AQUAFIN-P1 foams with water contact by high increase in volume and becomes a firm viscoelastic foam, which seals temporarily against further water penetration.

MYK AQUAFIN-P1 is resistant against acids and lyes and attacks neither bitumen nor joint tapes. In case of very dry surfaces the material does not foam immediately but it hardens slowly due to the steady addition of existing air resp. soil moisture.

Application areas:

MYK AQUAFIN-P1 is used for the injection of water-bearing cracks and joints in concrete and stone. MYK AQUAFIN-P1 is used for

- stoppage of water inflows from cracks, joints, etc.
- compacting of loose stones.

MYK AQUAFIN-P1 meets the requirements of the DfBT-leaflet "Bewertung der Auswirkungen von Bauprodukten auf Beton und Grundwasser (evaluation of the effect of construction products on concrete and ground water)" dated November 2000.

Technical Data:

Basis:	water reactive 1-comp. polyurethane resin (with integrated catalyst)
Colour:	brown
Viscosity at +5° C:	approx. 2900 ± 300mPa·S
Viscosity at +10° C:	approx. 2100 ± 200mPa·S
Viscosity at +15° C:	approx. 1200 ± 100mPa·S
Viscosity at +25° C:	approx. 425 ± 75mPa·S
Density:	approx. 1.150 ± 40 g/cm ³ at 25° C
Minimum reaction temperature:	> 5° C

Recommended

processing temperature: at least 15° upto 30° C

Reaction time *):

Start of foaming:

at +5° C:	approx. 27 sec.
at +10° C:	approx. 26 sec.
at +15° C:	approx. 24 sec.
at +20° C:	approx. 22 sec.
at +25° C:	approx. 20 sec.

End of foaming

At +5° C:	approx. 4 min.20 sec.
At +10° C:	approx. 3 min.20 sec.
At +15° C:	approx. 2 min.50sec.
At +20° C:	approx. 2 min.20 sec.
At +25° C:	approx. 2 min.00 sec.

Note: the reaction times had been determined with 10% water added.

Foaming factor (*) at temperatures of +5° C to +25° C: 30 - 50

*) in case of free foaming: The reaction times, foam quantity and foam properties depend on the water quantity, surface of the crack flanks resp. the stones, their distribution in the MYK AQUAFIN-P1, pressure and other factors.

Cleaning of tools:

The tools have to be cleaned properly and immediately after use. They are to be cleaned thoroughly with the cleaning agent ASO-R006. After work is 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).

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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-P1 is supplied in packs of 1.1 and 5.5 kg.

MYK AQUAFIN-P1 is ready for use without mixing.

Instruction for use:

MYK AQUAFIN-P1 reacts with the air humidity and with water. Therefore, a skin may form on the surface of the liquid in open cans which does not affect the injection procedure. Generally, MYK AQUAFIN-P1 is injected into the water bearing areas by means of injection nozzles and handresp. Motor-driven pumps. When in contact with water MYK AQUAFIN-P1 foams up strongly and hardens. If the zone to be waterproofed contains insufficient water, additional injection of water - preliminarily or subsequently - will support the reaction and hardening of MYK AQUAFIN-P1. The application is to be effected in accordance with the ZTV-riss or RiLi of the DafStb (regulations for crack injection).

Recommendation:

We recommend to store the product prior to use for at least 12 hours at a minimum temperature of 15°C in order to ensure the recommended processing temperature of between 15° - 30°C.

Application method/Consumption:

- Existing cracks (crack width approx. 0.2 mm) have to be bored in a distance of approx. 20 cm.
- The boreholes have to be cleaned with oilfree pressure air from the dust.
- Place the injection packers
- Inject MYK AQUAFIN-P1 with the suitable injection quipment. Vertical cracks: start the injection from the bottom. Horizontal cracks: start the injection from the left side. Consumption: approx. 1150 g/l
- If necessary, remove the injection packers after thorough hardening of MYK AQUAFIN-P1 and close the boreholes with MYK ASOCRET-RN, if necessary, level them upto the concrete surface.

Physiological Behaviour and Protective Measures:

MYK ASODUR-P1 is physiologically harmless after complete hardening. The liquid component is harmful; Symbol Xn. In any case the general protective regulations of the occupational association, the leaflet M 044 and the instructions on the bins must be adhered to.

Important notes:

Areas which are not to be treated have to be protected against the influences of MYK AQUAFIN-P1. 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 valid EC-safety data sheet.

GISCODE: RU40