

TOP Acrylic Gel

Low viscosity acrylic gel for injection

PRODUCT DESCRIPTION

TOP Acrylic Gel is water based elastic acrylic gel with a very low starting viscosity. Due to its low starting viscosity, it can be injected into substrates with very fine pores. It is a multi-component, water-swelling-capable hydrogel based on acrylate or methacrylate with very good mechanical properties, especially with an extremely high elongation.

USES

TOP Acrylic Gel can be used for waterproofing buildings below grade by curtain injection, for injection into brick or masonry to seal the mortar joints against water ingress, and in tunnels, shafts and void injections.

ADVANTAGES

- Excellent penetration capacity due to water like viscosity, giving instant filling of injection hose and the joint as well as hairline cracks and capillaries.
- Viscosity is increased gradually and not instantly, thus less problems in processing
- A very high sealing effect with long term durability and integrity
- High elasticity and adhesion to construction materials such as concrete, masonry and steel
- Reaction time for curing can be adjusted to suit but there are limitations
- Contains no toxic solvents, is non flammable and is suitable for use in potable water applications.
- Short controllable reaction time.
- Highly flexible when cured.

PACKING

TOP Acrylic Gel is supplied in

- Component A1 – 27.5 kg
- Component A2 - 0.5 kg
- Component A3 – 2 kg
- Component B – 0.5 kg
- Component B1 - 30 kg

STORAGE

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

TECHINICAL DATA

Colour	Light blue
Density at 20°C and 50% relative humidity	1.1 g/cm ³
Viscosity at 20 °C and 50 % relative humidity	Approx 30 Mpa s
Pot life	approx. 19 to 140 sec at 20 °C and 50 % relative humidity
Expansion	Approx 150 %
Swelling Properties	Approx 20 - 30 %
Consistency	Soft elastic
Elongation	Approx 1000%

APPLICATION PROCEDURE

TOP Acrylic Gel is a multi-component injection system, consisting of component A (Base) and component B (Initiator solution), which are mixed from sub-components at the site.

Component A is mixed from sub-components A1, A2 and A3, with components A2 and A3 being poured into the pack of component A1 and then mixed with a wooden paddle.

Component B is dissolved in component B1. The concentration of the solution determines the reaction time. Reaction times also depend on temperature.

Component B Dissolved in B1	Reaction time at 20 °C
4 %	approx. 18 sec
2 %	approx. 34 sec
1 %	approx. 46 sec
0.5 %	approx. 1 min 20 sec
0.2 %	approx. 2 min 20 sec

Mixing ratio

p. b. w.	110 : 2 : 4	Comp. A1 : A2 : A3
p. b. w.	0.5 : 100	Comp. B : B1 (standard)
p. b. w.	116 : 100.5	Comp. A : B- solution
p. b. V.	1 : 1	Comp. A : B- solution

INJECTION

TOP Acrylic Gel should be applied using a two-component injection-pump, made of stainless steel.

In case of curtain grouting, a reaction time at least 2 minutes should be adjusted, in order to achieve an optimal penetration of the ground. Faster reaction times have been indicated in extensive testing to be negative, because no uniform gel curtain can be achieved.

CLEANING

The product if not cured, can be removed with cleaner or water. If cured, then depending upon the substrate will depend upon the tool required to be used to remove the cured gel, as it adheres very well to most materials.

SAFETY

Always wear proper personal protective equipment. When carrying out injection work, make sure to protect the surrounding area from injection resin that may be discharged from the wall, packers, or boreholes. Do not stand directly behind the packers.

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