

Acrylic Injection Gel

DESCRIPTION



GeoTek AC is a two-component ultra-low viscosity hydrophilic acrylic grout, which when set forms a resilient gel. Adjusting the amount of accelerator varies the gel time to enable greater control on site.

KEY BENEFITS

- > Ultra-low viscosity ≤ 5 mPa-s
- > Adjustable gel times
- > Can be used from +3°C to +40°C
- > Reacts even in the presence of mineral and saline water
- > Potable water certified

TYPICAL APPLICATIONS

- > Void filling in fractured rock
- > Soil stabilisation
- > Tightening up after cement grouting

APPLICATION GUIDELINES

Mixing

- > Component A is the resin to which the accelerator is dispersed at the required ratio prior to injection.
- > Component B is potable water into which the hardener is dissolved at the specified ratio prior to injection.

Note: Once the Components have been dosed with the accelerator or hardener, they should be used within 24 hours.

Application

GeoTek AC is injected at a ratio of 1:1 Part A: Part B by volume. Ideally using a twin piston pump such as Tam TP2 or if extremely careful, a single component pump.

TECHNICAL DATA

| GeoTek AC (at 25°C) | |
|---------------------|-----------------|
| Product | Appearance |
| Component A | Coloured Liquid |
| Accelerator | Clear Liquid |
| Component B | Clear Liquid |
| Hardener | White Powder |
| Mixed Material | Coloured Liquid |
| Cured Material | Opaque Gel |

| | Component A | Mixed Product |
|----------------------|-----------------|---------------|
| Density ISO 12154 | 1.2 | 1.05 |
| Viscosity EN25555 | ≤ 20 mPa-s | 2.5 mPa-s |
| Solids Content | - | 21% |
| Flash point | - | >150°C |

All technical data stated herein is based on tests carried out under laboratory conditions.

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Reaction Times

The reaction time can be varied to suit prevailing conditions. To ascertain accelerator dosage required:

- > Use two clean disposable containers e.g. plastic cups used in vending machines.
- > Pour an equal amount of Component A and Component B into separate containers.
- > Each container should be able to hold the contents of the other.
- > Add between 2% and 8% accelerator to the Part A and mix.
- > Pour one container into the other.
- > Keep pouring the contents between two cups until the material gels.

For an initial guide, please see the below table or ask your Normet Representative.

| Reaction Time - GeoTek AC | | | | |
|---------------------------|-----|--------|----------|----------|
| Comp A | Acc | Comp B | Hardener | Gel Time |
| 100% | 2% | 100% | 2% | 7'40" |
| 100% | 4% | 100% | 3% | 3'25" |
| 100% | 6% | 100% | 4% | 1'30" |
| 100% | 8% | 100% | 5% | 0'30" |
| 100% | 10% | 100% | 6% | 0'10" |

RELATED PRODUCTS & EQUIPMENT

Injection probes
Injection packers
Hand pumps and air driven pumps

YIELD

1 kg = 0.95 litres

STORAGE

GeoTek AC should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected.

HEALTH & SAFETY

GeoTek AC should only be used as directed. We always recommend that the Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety data sheet is available upon request from your local Normet representative