SILINJECT 2C THIX TDS

SILINJECT 2C THIX is a non-foaming, fast reacting 2 component silicate injection system for stopping strong water ingress.

APPLICATIONS

- Very fast reacting silicate injection system for closing big leaks under high hydrostatic pressure.
- Rehabilitation and sealing of old corridors and shaft extensions.
- Repair of concrete and underwater structures.
- Hardening and stabilisation of supports.

PROPERTIES AND PRODUCT BENEFITS

- Short reaction times , even under water
- Very fast increase in adhesive strengths
- Good adhesion on wet substrates
- Good chemical stability
- Non-flammable

APPLICATION PRESCRIPTIONS

Before use, component C needs to be mixed with component B, which is then added as 1 component to the container of the injection pump. The amount of component C, added to component B, is 10% (pre-dosed). Component B and C can be mixed up to 1 day before use. Component A and mixture B+C are injected in a 1:1 volumetric ratio. The injection process involves dosing both components through a two-component injection pump. At the entrance of the feeder duct, the component A and the mixture B+C are brought together and mixed in a static mixer. Rinse component A with water. We recommend storing the components before processing at a minimum temperature of 15°C for at least 12 hours in order to reach the recommended processing temperature between 15°C and 30°C.

TECHNICAL DATA

SILINJECT 2C THIX	Colour	Viscosity (Cp)	Density (Kg/M3)
Comp. A	Colourless	350	1,50
Comp. B	Dark brown	350	1,23
Comp. C	Colourless	150	1.12

Measured at 25°C.
Flash point: A & B > 200°C.
Mixing ratio A:(B+C) = 1:1 volumetric.
10% (pre-dosed) of component C will be added to component B prior to application (100:82 = in weight terms).

REACTION DATA

Flow time	Flows for maximum 90 seconds
Curing time	Maximum 5 minutes
Foaming factor	No Foam

MECHANICAL PROPERTIES

Compressive strength (Mpa) ASTM 695	49
Bending strength (MPa) ASTM 90	18
Tensile strength (MPa) ASTM 638	9
E-modulus (MPa)	648

PACKAGING

The quantities contained in the packaged containers correspond approximately to the dosage ratio of the components (1:1 volumetric). The different weights of the containers correspond to a volumetric ratio of 1:1 because of the different densities.

- Component A: 70 kg
- Component B: 50 kg
- Component C: 5 kg

STORAGE

In dry storage for previously unopened original containers and at storage temperatures between +10°C and +30°C, at least 6 months after delivery or 12 months after production. Component A is susceptible to frost damage. Don't store component A in aluminium packaging. The legal requirements for storage should be observed (see safety data sheet).

SAFETY AND HEALTH PRECAUTIONS

The usual precautions for handling chemicals should be observed.
Avoid contact with skin or eyes by using the required personal protective equipment such as protective clothing, protective gloves and safety goggles / face protection.
In case of skin contact clean immediately with water and soap. In case of eye contact, rinse with plenty of water and eye band with boric acid solution. Get medical help if required.
Unhardened, fluid material may not be allowed to penetrate into sewers or come into contact with public water bodies.
Remove any spilled material using an absorbent such as sawdust or sand and dispose in accordance with local disposal requirements.
The hardened material is non-hazardous.
Please refer to the safety recommendations in the safety data sheet.