# SILINJECT 2C FOAM ALT TDS

Highly reactive, two component urea-silicate foam for filling cavities.

## APPLICATION

SILINJECT 2C FOAM ALT is a two component, solvent-free urea-silicate foam specifically designed for rapid cavity fillings, concrete and strata consolidation.

- Filling cavities in concrete and strata.
- Consolidation of fractured rock, sands gravel sand.
- Stabilization of cavities in tunnels.

## CHARACTERISTICS AND BENEFITS

SILINJECT 2C FOAM ALT neither expands its volume with water nor absorbs water after mixing components.

- Shows good adhesion to wet substrates
- Very fast reacting material applied where foaming speed, flexibility and flame retardant properties are required
- Suitable for spray-on applications
- Good chemical stability
- Low odour.
- User friendly.
- Environment friendly.

## APPLICATION PRESCRIPTIONS

Components A and B are delivered ready-to-use. They are injected in the proportion of 1:1 by volume using a two component injection pump equipped with a static in-line mixer.
The curing reaction time is significantly dependent on the temperature of the PU resin, the rock and the ground water. Foam factor is significantly dependent on water content in component A. Density range also depends on water content in component A and isocyanate reactive groups in component B.
Please store both components prior to application in at least 15 °C. To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is essential. The length of the static mixer should be min. 50 cm long for correct mixing.

## TECHNICAL DATA

| SILINJECT 2C FOAM ALT | Component A | Component B |
|---|---|---|
| **Colour** | Clear, colourless | Dark brown |
| **Density (at 25°C)** | 1,35 - 1,50 g/cm³ | 1,15 - 1,30 g/cm³ |
| **Flash point** | > 200°C | > 200°C |
| **Viscosity (at 25°C)** | 20 - 80 mPa.s | 150 - 400 mPa.s |

The above data are laboratory data. They may vary in practice due to thermal exchange between resin and strata, surface properties of stone, humidity, pressure, and other factors.

## REACTION DATA

| Reaction data : A:B = 100:90 (by weigh at 25°C) 1:1 by volume | |
|---|---|
| **Start of reaction** | 10 - 30 s |
| **Tack free** | 50 s |
| **Foam factor** | 20 - 25 X |

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## PACKAGING

Standard packaging:

- Plastic jerrycan: component A = 28 kg
  component B = 26 kg
- IBC: component A = 1.350 kg
  component B = 1.210 kg

## STORAGE

If stored in dry conditions in unopened, tightly closed original containers and within a temperature range of +5 °C and +35 °C, the components of SILINJECT 2C FOAM ALT have a shelf life of 12 months.

## SAFETY AND HEALTH PRECAUTIONS

Do not breathe dust/fume/gas/mist/vapours/spray.
In case of inadequate ventilation wear respiratory protection.
Wear protective gloves/clothing and eye/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.
For more information, consult the safety data sheet.