PURINJECT 2C D TDS

A fast-reacting two-component polyurethane injection system, CFC and halogen free. Hardening of strongly disaggregated, dry or lightly moist mountainous zones.

APPLICATIONS

- Stabilisation of disturbance zones.
- Fastening of injection anchors.
- Hardening of fissured and unstable mountains and petrous formations of rock and broken rocks.
- Rehabilitation of old sections, tunnels, vaults and navigable channels.
- Repair of fissures in concrete components.

PROPERTIES AND BENEFITS

- Fast-reacting injection system for applications which demand flexibility in addition to high adhesive strength.
- Not recommended as a water blocker. Where necessary, we recommend PURINJECT 1C 115 ECO.
- Permeates into fissure widths over 0.15 mm.
- Reacts and expands in volume without external effects from water.

APPLICATION PRESCRIPTIONS

- If the product has cooled down to low temperatures, it should first be reheated to approx. 15°C. The reaction and curing times are substantially affected by the initial temperatures of the injection resin, the petrous formation and the groundwater.
- In order to ensure the best possible mixing of components during the injection process, it is necessary to use a static mixer at the mixing head, provided with static mixing elements.
- Both components are injected in a 1:1 volume ratio by means of a two-component injection pump. A static mixer combines both components and injects them into the mountain side through an infusion seal.
- Before changing the injected material from PUR resin to silicate-based systems or vice versa, the flexible hoses and the receiving vessel for component A at the pump must absolutely be changed.

TECHNICAL DATA

Purinject 2C D	Colour	Viscosity mPa.s		Density kg/m³
		At 25 °C	At 15 °C	
Comp. A	Honey-coloured	310 ± 50	650 ± 50	1000 ± 30
Comp. B	Dark brown	200 ± 50	500 ± 100	1235 ± 30

Flash point: A & B > 200 °C. Mixing ratio 1:1 volumetric.
Pressure resistance > 20 kg/cm² (free expansion). When PURINJECT 2C D reacts under pressure the resistance will be much higher.

REACTION DATA

Initial temperature	15 °C	25 °C
Mixture viscosity after 40 sec	770 ±100 mPa.s	630 ±100 mPa.s
Start of foaming	1'25'' ±10''	0'55'' ±10''
End of foaming	1'55'' ±10''	1'15'' ±10''
Foaming factor	2,5 - 3,0	1,8 - 2,5

The indicated data are laboratory measurements. These values may differ in applications due to heat exchange between resin and mountain, humidity, pressure and other factors.

PACKAGING

The quantities contained in the packaged containers correspond approximately to the dosage ratio of the components (1:1 volumetric). PURINJECT 2C D is available in the following packaging units:

- Component A: 23 kg in 25 l metal container
- Component B: 27 kg in 25 l metal container

The different weights of the containers correspond to a volumetric ratio of 1:1 because of the different densities. Available under own brand.

STORAGE

For both components, original unopened containers, when stored in dry areas at temperatures between +5°C and +35°C, have a shelf life of 12 months after production. When the product has cooled down to low temperatures, it should be reheated to a minimum of 15°C before processing. Component A is susceptible to frost damage. The legal requirements for storage should be observed.

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.
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.
For more information, consult the safety data sheet.