

NordicSIR Flex

Two Component (2C) High Strength, Flexible, Non-Foaming Silicate Resin

Product Description:

Non-foaming, expanding, two component injection silicate resin with elastic, high bond strength characteristics:

- Crack injection work over 25 mm
- Stabilise and consolidate fractured ground
- Strengthening of pipelines and structures
- Secure anchors
- Other construction applications

Technical properties:

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

Reaction Data:

Temperature	25 °C
Time in fluid state	1 min 30 s to 2 min
Setting Time	2 min 30 s to 3 min 30 s
Reaction Temperature (max)	105°C
Foaming factor	1

Material Data:

	Component A	Component B
Density at 25 °C kg/m ³	1450 to 1480	1100 to 1140
Viscosity at 25 °C mPa*s	220 to 290	100 to 215
Flash Point °C	-	>100

Mechanical Data:

	At an age of 1 month
Elastic Expansion in rough surfaces (3mm fracture)	Approx. 0,21 mm
Elastic Expansion in smooth surfaces (3mm fracture)	Approx. 0,18 mm
Compressive Strength	22 N/mm ²
Flexural Strength	7,2 N/mm ²

Technical Composition and Properties

Component A is a special water glass.
Component B is a modified isocyanate.

Application:

Before pumping stir both components thoroughly. The components are pumped by a dual component pump at the volumetric ratio 1:1; they are mixed thoroughly in a static mixer unit, prior to use. Product is injected into strata via a lance with an additional packer when required.

Recommendation:

We recommend that before use, the product should be stored for at least 12 hours at a minimum temperature of 15 °C to achieve the recommended mixing temperature of between 15 °C to 25 °C.

Packaging:

Component A:	35 kg in PE can
Component B:	30 kg in PE can

Storage, shelf life:

The shelf life of the product is six months from date of delivery. The product should be stored in a dry place at temperatures between 0 °C and 25 °C. Improper storage will shorten shelf life.

Disposal:

Dispose of uncured product components in accordance with the local regulations. Small quantities of cured product residues may be disposed of as normal domestic waste. Empty cans should be cleared of liquid by punching a hole through the edge of the cover and turning them upside down, until liquid does not flow out any longer.

Disclaimer:

The data in this sheet conform to our best knowledge and experience at the date of printing, which is indicated below. The state of knowledge and experience are evolving constantly. Please pay attention therefore, that you always refer to the current version of this data sheet. The description of the product application in this sheet cannot take the special conditions and circumstances into account emerging from the individual case. Application, use and processing of our product occur outside of our control capabilities. In particular, the processing results are exclusively subject to your own responsibility. No data in this sheet constitute a guarantee in a legal sense. Every time the user is obliged to check the product and auxiliary agents in terms of usefulness for his intended use.

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