

# NordicSIR BoltFast

## Fast setting resin grout for bolting and anchoring

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### Product Description:

NordicSIR BoltFast is an instantly thickening fast curing two component silicate resin for high strength bonding of bolts, anchors and tendons, as well as ground consolidation around the bore hole. NordicSIR BoltFast can also be applied in ground consolidation applications in mining, tunnelling and construction works. NordicSIR BoltFast is CFC and halogen free.

### Advantages:

- Immediate load capacity of the bolt
- Precise injection due to thixotropic properties
- Consolidation of fractured rock
- Compatible for all types of grouting applications of bolts, anchors, cables and tendons in consolidated or broken rock.
- Fast reacting, High Strength
- Easily pumped into bolt holes

### 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 °C	30
Mixing Viscosity after 10s (mPa*s)	> 100 000
Open time (s)	40 ± 7

### Strength/time:

Time	15 min.	30 min.	60 min.	2 hours	4 hours
Strength % (at 25 °C)	Approx. 45	Approx. 70	Approx. 90	100	100

### Material Data:

	Component A	Component B
Density at 25 °C kg/m <sup>3</sup>	1450 ± 45	1160 ± 50
Viscosity at 25 °C mPa*s	307 ± 50	190 ± 35
Flashpoint (°C)	n.a.	Approx. 100
Colour	Brown	Brown

### Mechanical Data:

Shore Strength	D 60
Shear Strength (MPa)	Approx. 14
E- Module (MPa)	Approx. 200

### Composition and properties:

Comp. A is a mixture of special sodium silicate and various additives.

Comp. B is a modified polyisocyanate on the basis of 4,4'-diphenylmethane diisocyanate.

### Application:

The two components are pumped by a dual component pump at the volumetric ratio of 1:1, then mixed thoroughly in a static mixer unit prior to injection of previously drilled borehole for installation of a bolt/anchor/cable or tendon or into a previously installed a bolt/anchor/cable or tendon in post grouting applications.

### Recommendation:

We recommend that before processing, the product should be stored for at least 12 h at a minimum temperature of 15 °C to achieve the recommended processing temperature of between 15 °C to 30 °C

### Packaging:

Component A: 35 kg in PE can

Component B: 30 kg in PE can

Other packaging available on request.

## **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 15 °C and 25 °C. Improper storage will shorten shelf life.

## **Disposal:**

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be performed in accordance with the local regulations. 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 intentional use.

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