

NordicCEM BoltFast

Two Component (2C) Fast Acting Thixotropic Grout

Product Description:

Fast acting, two-component, thixotropic cementitious grout for anchoring rockbolts and ground anchors. This is supplied in a ready-to-use, powdered form. Water is added to both components before they are mixed together in a 1:1 ratio. NordicCEM Fastbolt is suitable for automated rockbolting applications due to its special thixotropic behaviour.

- Rockbolting in mining and tunnelling applications
- Grouting of ground anchors above and below ground
- Automated bolting operations

This innovative grout offers many advantages which can improve productivity by reducing the time required to grout bolts. The fast action with a setting time of 10 minutes improves safety since the bolts are then capable of carrying ground loads. This also makes this grout suitable for application with automated bolting systems which require thixotropic grouts which harden rapidly. The long pot life and excellent workability properties both simplify the bolt grouting process by permitting long pumping lengths (up to 400m) and improve productivity by making the process more flexible.

Technical properties:

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

Technical Data:

Compressive strength at 1 hr	20 MPa
Compressive strength at 1 day	35 MPa
Compressive strength at 7 days	50 MPa
Compressive strength at 28 days	65 MPa
Flexural strength at 28 days	8 MPa
Tensile strength at 28 days	5 MPa
Elastic modulus at 28 days	18 GPa
Setting time of Components A & B	10 min
Pot life of Component A	> 5 hr
Pot life of Component B	> 5 hr

Application:

The rockbolt or ground anchor should be prepared in the normal manner for cementitious grouting. The grout hole should be flushed with water prior to grouting to ensure that the borehole is free of debris and clean.

Components A and B should be mixed with water separately in high-speed paddle mixers to form a uniform consistency with no lumps. 7 litres of water should be added for each 20 kg of the component. This will produce approximately 12 litres of each grout component from each 20 kg bag.

The components should be pumped at a volumetric ratio of 1:1 from the mixers via a pump into the borehole. After the borehole has been filled and the grout appears at the mouth of the borehole, pumping should be stopped. The pump, mixers and hoses should then be flushed clean with water.

Packaging:

Component A: 20 kg water resistant paper bags

Component B: 20 kg water resistant paper bags

Storage, shelf life:

NordicCEM Fastbolt A and B components should be stored in the original packaging. The product should be stored in a dry place at temperatures between 15 °C and 25 °C. Improper storage such as high temperature and high humidity may shorten the shelf life. Shelf life for each component is twelve (12) months from the date of delivery.

Disposal:

Dispose of product components in accordance with the local regulations.

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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