

MasterRoc[®] AGA 4 I

Accelerating Admixture for TBM Annulus Grouting

Description

MasterRoc AGA 4 I admixture is a high-performance grout accelerator mainly used for Tunnel Boring Machine (TBM) annulus grouting. The dosage of MasterRoc AGA 4 I admixture can be varied to the desired setting and hardening times.

Applications

Recommended for use in:

- TBM applications
- Grout mixes with or without cementitious binders

Features

- Adjustable setting times
- Low viscosity

Benefits

- High-early strength
- Low consumption
- Easy to mix into grout, even at low temperatures

Performance Characteristics

Technical Data

Form	Liquid
Color	Pale yellow
Solubility in water	Total

Properties

	Minimum	Maximum
Specific Gravity at 68 °F (20 °C)	1.32	1.61 (Avg 1.46)
Total Solids % by mass	37.52	39.12
Viscosity at 68 °F (20 °C) cP (mPa.s)	165	245

Guidelines for Use

Application Procedure: MasterRoc AGA 4 I admixture is a liquid material, which is added into the grout stream as close as possible to the end of the tailshield grout ports.

Dosage: For every 1 yd³ of grout it is expected that 42.0 to 160.0 lb (25 kg to 95 kg for 1 m³ of grout) of MasterRoc AGA 4 I admixture will be required. Depending on the required properties of the grout, trial tests should be done to determine the optimum dosage.



Storage and Handling

Storage Temperature: MasterRoc AGA 4I admixture must be stored in a cool dry place at temperatures between 40 °F and 95 °F (5 and 35 °C).

Shelf Life: MasterRoc AGA 4I admixture will have a shelf life of 12 months when stored under recommended conditions. Do not allow the product to freeze. It is recommended that your local sales representative be consulted prior to the use of any product that freezes.

Safety: MasterRoc AGA 4I admixture is non-hazardous. However, it is recommended to follow standard precautions when handling chemicals. Wear eye protection and gloves when handling the product.

Packaging

MasterRoc AGA 4I admixture is supplied in drums, totes and by bulk delivery.

Related Documents

Safety Data Sheet: MasterRoc AGA 4I admixture

Additional Information

For additional information on MasterRoc AGA 4I admixture, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

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