

31 71 19	Tunnel Excavation by Tunnel Boring Machine
31 73 13	Cement Tunnel Grouting
31 74 00	Tunnel Construction

MasterRoc[®] AGA 41S

Admixture for TBM annulus grouting

Description

MasterRoc AGA 41S admixture is a high performance grout accelerator mainly used for TBM annulus grouting, whose dosage can be varied to achieve the desired setting and hardening times.

Applications

Recommended for use in:

- Tunnel boring machine (TBM) applications
- Grout mixes with or without cementitious binders

Features and Benefits

- Fast and adjustable setting times
- High-early strength
- Low viscosity
- Low consumption

Product Properties

Form	Liquid
Color	Pale yellow
Viscosity*	< 80 mPa.s
pH	11 - 12

*Measured at 68 °F (20 °C)

Guidelines for Use

Application procedure: MasterRoc AGA 41S admixture is a liquid material, which is added into the grout stream as close as possible to the end of the tail shield grout ports.

Dosage: For every yd³ of grout it is expected that 42 to 200 lb(25 to 120 kg for 1 m³ of grout) of MasterRoc AGA 41S 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 Conditions: MasterRoc AGA 41S admixture must be stored in a dry environment at temperatures between 40°F and 95°F (5°C and 35°C).

If stored in bulk storage tanks, use agitation or recirculation to prevent silicate gelling. (Refer to MasterRoc AGA Products Storage and Handling Guidelines).

Shelf Life: When stored properly under recommended conditions, MasterRoc AGA 41S admixture should have a minimum shelf life of 12 months.

Safety: When handling MasterRoc AGA 41S admixture, standard precautions for handling chemical products should be observed. Avoid eye and skin contact and wear gloves and safety goggles. If contact occurs, rinse with plenty of water. In the event of eye contact, seek medical attention immediately. For further information, refer to the Safety Data Sheet.

Packaging

MasterRoc AGA 41S admixture is supplied in 275-gallon (1041 L) totes, 55-gallon (210 L) drums, and 5-gallon (18.9 L) pails. Bulk delivery is available upon request.

Related Documents

Safety Data Sheet: MasterRoc AGA 41S admixture.

Additional Information

For additional information on MasterRoc AGA 41S 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.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY

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