317419



MasterRoc® AGA 41S

Shotcrete Tunnel Lining

Admixture for TBM annulus grouting

Description

MasterRoc AGA 4 I S 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

Performance Characteristics

Technical Data

Form	Liquid
Color	Pale yellow
Solubility in water	Total

Properties

	Minimum	Maximum	
Specific Gravity (degrees Baumé at 68 °F [20 °C])	37.5	39.0	
Specific Gravity (at 68°F [20°C])	1.35	1.37	
Sodium Oxide (Na ₂ O), % by mass	8.14	8.51	
Silica (SiO_2), % by mass	26.28	27.35	
Total Solids, % by mass	34.42	35.86	
Mass Ratio (SiO ₂ /Na ₂ O)	3.17	3.27	
Viscosity (centipoise at 68 °F [20 °C])	45	80	

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 Temperature: MasterRoc AGA 41S admixture must be stored in a dry place at temperatures between 40 °F and 95 °F (5 °C and 35 °C).

Shelf Life: MasterRoc AGA 41S 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 41S admixture is supplied in drums, totes and by bulk delivery.

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 \sim 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 OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

© Master Builders Solutions ■ 07/23 ■ DAT-0856

 ${\bf @}$ registered trademark of Master Builders Solutions in many countries of the world

www.master-builders-solutions.com/en-us