

MasterRoc[®] AGA 42

Admixture for TBM Annulus Grouting

Description

MasterRoc AGA 42 is a high-performance liquid accelerator designed specifically for use in Tunnel Boring Machine (TBM) annulus grouting applications. As part of a two-component grout system, MasterRoc AGA 42 accelerator provides rapid setting and early strength development, which is essential for ensuring efficient and secure TBM operations. The dosage can be tailored to optimize setting and hardening times based on project-specific requirements.

Application

- TBM annulus grouting
- Grout mixes with or without cementitious binders
- Two-component grouting systems requiring rapid setting and early strength gain

Features

- Low viscosity, even in low temperatures
- Adjustable setting time for flexible performance control

Benefits

- Simple integration into grout mixtures
- Provides high early compressive strength, supporting rapid construction cycles

Product Properties

Form	Liquid
Color	Clear to pale yellow
Viscosity*	< 60 mPa.s
pH	11 - 12

*Measured at 68 °F (20 °C)

Guidelines for Use

Application Procedure: MasterRoc AGA 42 accelerator should be injected into the grout stream as close as possible to the outlet ports at the end of the TBM's tail shield to ensure optimal performance and reactivity.

Recommended Dosage : The typical dosage range of MasterRoc AGA 42 accelerator is 45 to 220 lb per cubic yard of grout (27 to 130 kg/m³). The optimal dosage depends on the required setting time and strength development and should be confirmed through site trials.

Storage and Handling

Storage Conditions: MasterRoc AGA 42 accelerator must be stored in a dry environment between 40 °F and 95 °F (5 °C - 35 °C). Prevent exposure to freezing and elevated temperatures. Keep containers sealed tightly.

Bulk Storage: If stored in tanks, use agitation or recirculation to prevent silicate gelling.

Refer to : MasterRoc AGA Products Storage and Handling Guidelines

Shelf Life: If stored properly in the recommended conditions, MasterRoc AGA 42 accelerator should have a minimum shelf life of 12 months.

Safety: 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 case of eye contact, seek medical advice. For further information, refer to the Safety Data Sheet.

Packaging

MasterRoc AGA 42 accelerator is supplied in 275-gallon (1041-liter) IBC totes. Bulk delivery is available upon request.

Related Documents

Safety Data Sheets: MasterRoc AGA 42 accelerator.

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.

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