

MasterRoc[®] ACP 214

Anti-clay polymer for Tunnel Boring Machines (TBM)

Description

MasterRoc ACP 214 anti-clay polymer is a liquid product designed to reduce the clogging and adhesion potential of clayey soils.

Applications

MasterRoc ACP 214 anti-clay polymer can be applied to the cutterhead, into the working chamber, or onto the screw conveyor of the TBM to eliminate stickiness and adhesiveness of the clay, to reduce the risk of TBM blockage, and to facilitate an easy and convenient muck transportation.

Features

- Breaks down clay, reduces its stickiness and adhesiveness
- Reduces clogging and adhesion on the cutterhead
- Improves and homogenizes soil consistency

Benefits

- Reduces blockages in cutterhead, working chamber, and muck transfer system
- Reduces cutterhead torque
- Increases TBM advancing speed

Performance Characteristics

Technical Data

Typical Values

Form	Liquid
Color	Dark brown
Density*	$69.7 \pm 1.2 \text{ lb/ft}^3$ ($1.116 \pm 0.02 \text{ g/cm}^3$)
Viscosity (dynamic)*	< 60 cP (mPa.s)
pH*	Approx. 7

*at 68 °F (20 °C)

Guidelines for Use

Application Procedure: MasterRoc ACP 214 anti-clay polymer can be used together with MasterRoc SLF foaming agents (such as MasterRoc SLF 143 product) or can be added directly into the water supply for the cutter head or the working chamber.

Do not mix MasterRoc ACP 214 anti-clay polymer with any soil conditioning additive that is not recommended by Master Builders Solutions, as this may cause immediate gel formation.

It is strongly recommended that you contact your local Master Builders Solutions sales representative prior to using MasterRoc ACP 214 anti-clay polymer in your particular application.

Dosage: The consumption rate of MasterRoc ACP 214 anti-clay polymer is based on the volume of soil excavated and ranges from 0.8 to 3.5 lb/yd³ (0.5 to 2.0 kg/m³). Tests should be conducted to determine the optimal dosage rates for your specific needs.

Storage and Handling

Storage Temperature and Shelf Life: The storage temperature of MasterRoc ACP 214 anti-clay polymer is between 50 °F and 105 °F (10 °C and 40 °C). Do not allow the product to freeze. If stored in original tightly closed containers, MasterRoc ACP 214 anti-clay polymer will have a shelf life of 6 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 ACP 214 anti-clay polymer is available in totes and drums.

Related Documents

Safety Data Sheets: MasterRoc ACP 214 anti-clay polymer

Additional Information

For additional information on MasterRoc ACP 214 anti-clay polymer, please 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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