

MasterRoc ACP 143

Anti-clay polymer for earth pressure (TBM)

DESCRIPTION

MasterRoc ACP 143 is a liquid polymer, specially designed for clayey soils with clogging and adhesion.

FIELDS OF APPLICATION

MasterRoc ACP 143 creates a stable foam and can be used with the standard foam generators installed on EPB machines. It can be injected at the cutter-head, into the working chamber and screw conveyor.

FEATURES AND BENEFITS

- Reduction of clogging and adhesion effects on the cutter-head
- Creation of a plastic soil material which can be easily excavated and transported
- Avoiding re-agglomeration of clay chips to blocks
- Reduction of cutter-head torque
- Increase in TBM speed

APPLICATION

MasterRoc ACP 143 is used as an aqueous solution with typically 3 % concentration. Injected via a foam generator, the typical foam expansion ratio (FER) varies between 8 and 20, and the foam injection ratio (FIR) between 30 and 80. If the consistency of the muck needs to be reduced, MasterRoc SLP 1 or MasterRoc SLP 2 polymers can be used in combination with MasterRoc ACP 143.

For the first use and combination with other soil conditioning please contact our local representative.

HANDLING

Do not mix pure MasterRoc ACP 143 with any other pure soil conditioning additives as this may cause immediate gel formation. If several foaming products or polymers are used on the TBM, it is preferable to reserve a specific transfer or dosing pump for MasterRoc ACP 143. If a transfer or dosing pump is being used for more than one product, the pump should be cleaned with water before switching to other products.

DOSING SYSTEM

MasterRoc ACP 143 can be used with the standard TBM dosing and foaming equipment.

PACKAGING

MasterRoc ACP 143 is supplied in Bulk and 1000-litre IBC's.

CONTACT DETAILS

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| Product Data | |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance | Light brown liquid |
| Specific gravity @ 20°C | 1.024 ± 0.02 g/cm ³ |
| pH-value | 7.1 ± 1 |
| Viscosity (20°C, Brookfield Sp.00) | < 160 mPa.s |
| Logistics | |
| Shelf Life | 12 months if stored according to manufacturer's instructions in unopened container. |
| Storage Conditions | Must be stored between 5°C and 40°C. Do not allow the product to freeze. It is recommended that your local representative be consulted prior to the use of any product that has become frozen. |
| Handling and Transportation | Refer to MasterRoc ACP 143 Safety Data Sheet |
| Disposal | Refer to MasterRoc ACP 143 Safety Data Sheet |

MasterRoc ACP 143, Master Builders Solutions UK Ltd, Version 3

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.