

# MasterRoc<sup>®</sup> ABR 7

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Liquid dust reducing agent for hard rock Tunnel Boring Machines (TBM) operating in hard rock mode

## Product description

MasterRoc ABR 7 is specifically designed to reduce dust for hard rock tunnel boring machines.

## Fields of application

MasterRoc ABR 7 is designed as an anti-dust agent with anti-clogging properties for hard rock as well as for EPB TBMs operating in hard rock geology.

## Features and benefits

- Effective reduction of dust formation, leading to considerably improved working environment for the personnel.
- Improved transfer of the muck from the cutter head, resulting in reduced risk of blockage, cleaner cutter discs and cutterhead area, which make maintenance easier and reduce cutter disc changing time.
- Better cooling of the cutter head, improving the rubber seal durability, and extending the life of the cutter bearing.

## Packaging

MasterRoc ABR 7 is available in standard 1000 liter containers.

## Technical data

Form	Liquid
Color	light brown
Density; kg/liter; 20°C	1,035-1,045
pH ; 20°C, 3% sol.	6-7

## Application procedure

MasterRoc ABR 7 must first be turned into foam before it can be used. For this purpose, foam generating equipment typically used in EPB machines is recommended. The proposed foam expansion ratio (FER) is 8 -15. The generated foam is then injected through foam or water injection ports at the cutterhead. The foam injection rate (FIR) is typically 30%.

## Consumption

Typical consumption rate of MasterRoc ABR 7 is 0.5 – 1.0 kg/m<sup>3</sup> undisturbed rock.

## Storage

MasterRoc ABR 7 should be stored between 5°C and 40°C. If stored in original tightly closed containers it will have a shelf life of 12 months. Do not allow the product to freeze. Please contact your local BASF representative prior to the use of any product that has frozen.

## Safety precautions

MasterRoc ABR 7 contains no hazardous substances. However, standard precautions for handling chemical products should be observed. For further information, refer to the Material Safety Data Sheet, and relevant local regulations.

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

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