

# MEYCO® FIX ABR 5

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Anti Abrasion Agent  
for Hard Rock Tunnel Boring Machines

## Product description

MEYCO® FIX ABR 5 is a liquid product, specifically designed for hard rock tunnel boring machines (TBM) operating in abrasive ground.

## Fields of application

MEYCO® FIX ABR 5 is designed for use in hard rock TBM excavation. It is used to reduce abrasive wear to the cutting tools, and to reduce substantially dust formation during excavation.

## Features and benefits

The use of MEYCO® FIX ABR 5 gives the following benefits with regard to TBM operation:

- Reduction of abrasive wear for cutting tools
- Improved cooling of the cutter head, improving the rubber seal durability, and extending the life of the cutter bearing assembly
- Reduce TBM down time due to less frequent cutter changes, therefore more time available for excavation
- Improved transfer of the muck from the cutter head, resulting in reduced risk of blockage, cleaner cutter discs and cutter head area, which make maintenance easier and reduce cutter disc changing time
- Overall cost saving due to higher monthly advance rate and lower maintenance cost

Effective reduction of dust formation, leading to considerably improved working environment for TBM operators.

## Packaging

MEYCO® FIXABR 5 is available in standard 1000 litre containers. Other packaging is available on request.

## Technical data

|                         |                              |
|-------------------------|------------------------------|
| Form                    | Liquid                       |
| Colour                  | Yellow to brown, transparent |
| Density; kg/litre; 20°C | 1.02 -1.04                   |
| pH ; 20°C               | 7.5 – 8.5                    |
| Viscosity; mPa.s; 20° C | Max. 500                     |

## Application procedure

MEYCO® FIX ABR 5 must first be turned into a foam before it can be used. For this purpose, a foam generating equipment typically used in EPB machines can be used. The recommended foam expansion ratio is 8-15, preferably 8-12. The generated foam is then injected through foam or water injection ports into the cutter head. The foam injection rate is typically 30%.

## Consumption

Typical consumption rate of MEYCO® FIX ABR 5 is 1.5 – 2 kg/m<sup>3</sup> undisturbed rock.

## Storage

MEYCO® FIX ABR 5 should be stored between 5°C and 40°C. If stored in original tightly closed containers MEYCO® FIX ABR 5 will have a shelf life of 12 months. Do not allow the product to freeze. It is recommended that your local UGC representative be consulted prior to the use of any product that has become frozen.

## Safety precautions

MEYCO® FIX ABR 5 contains no hazardous substances requiring labeling. However, standard precautions for handling chemical products should be observed. For further information, refer to the Material Safety Data Sheet, and relevant local regulation.