

MasterRoc[®] AGA 370

High-performance liquid accelerator as component B of two-components annular grout system for TBM tunneling

Material Description

MasterRoc AGA 370 is a high-performance liquid accelerator used during the injection of the two-components annular grouts behind the concrete lining of a Tunnel Boring Machine (TBM).

MasterRoc AGA 370 is more commonly known as Component B of the annulus grout in TBM tunneling.

Areas of Application

MasterRoc AGA 370 is designed for usage in two-component grouts where a rapid gel and early strength values are decisive. MasterRoc AGA 370 is fully compatible with retarders such as MasterRoc AGA 155 & MasterRoc AGA 255.

Operational Benefits

- Easily pumpable
- Fast setting and higher early strength achievement as compared with traditional accelerators
- Rapid work progress
- Easy workability and to mix in the grout

Technical Benefits

- Low viscosity
- Depending on dosage, MasterRoc AGA 370 ensures flexibility and control of gel time (setting time), and also on compressive strengths

Packaging

MasterRoc AGA 370 is available in 1000 kg IBCs or in bulk.

Technical Data

Form	Liquid
Color	Transparent
Density (20°C, g/cm ³)	1.34 ± 0.02
pH-value	< 11.5
Viscosity (20°C, mPa.s)	30-70

Solubility in water	Total
Thermal stability	+ 5°C
Chloride content	< 0.1%
Physiological effect	Irritant to skin and eyes

Application Procedure

MasterRoc AGA 370 is part of the modern two-components grouting system. The addition of the accelerator will be at the nozzle point with a non-return valve just before injection into the annular gap.

Mix design of Component A and the equipment injection set up will be specific to the TBM and available raw materials. The gelling effect can be reached in few seconds after adding MasterRoc AGA 370, depending on the mix design formulation.

Storage

Recommended storage temperature for MasterRoc AGA 370 is between + 5°C and + 60°C. If it has frozen, thaw at +20 °C or above and completely reconstitute with a mild mechanical agitation.

Please contact your local Master Builders Solutions representative prior to the use of any product that has been frozen.

Performance tests should always be carried out before use. If stored tightly closed in original containers and under the above conditions, MasterRoc AGA 370 has a shelf life of at least 12 months.

Safety Precautions

MasterRoc AGA 370 is an irritant fluid, any contact with skin and eyes must be avoided. It is essential that safety glasses and rubber gloves always be worn during handling.

The use of a protective cream e.g. Ketodex 1, is recommended. In case of contact with eyes or skin, flush immediately with plenty of water and seek medical advice.

Further details can be found in the Material Safety Data Sheet.



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Disclaimer

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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