

MasterRoc[®] TSG 16

Oil free Tail Sealant for Shielded Tunnel Boring Machines (TBM)

DESCRIPTION

MasterRoc TSG 16 is a tail sealant for shielded tunnel boring machines. It effectively seals together with wire brushes the gap between the shield tail and the concrete segments to prevent the ingress of water, grout and soil. It is formulated to resist water and grout pressures, and has excellent pumping properties. It has special rheological properties for excellent spreading in the sealant chamber.

TYPICAL APPLICATIONS

Tunnelling with shielded TBMs equipped with a brush seal system.

ADVANTAGES

- Excellent sealing properties
- Good adhesion to any metal or concrete surfaces
- Excellent pumping properties

PACKAGING

MasterRoc TSG 16 is available in standard 70kg or 250kg fibre drums for press plate pumps.

TYPICAL PROPERTIES*

Form	Homogenous paste
Color	Light grey
Odour	Light odour
Density @ 20°C	1370 ± 50 kg/m ³
Consistency ASTM D 217 [1/10 mm]	240±20
Matsumara sealing test	34.3 bar
Volatility ASTM D 972	< 2%
Oil dropping point ISO 2176	> 170°C
Thermal decomposition	> 180°C

CONSUMPTION

The typical consumption rate varies between 0.8 and 1.5 kg/m² of segment outer surface area but can fall outside this range. Consumption depends on several factors such as segment ring surface conditions, curve drives, brush conditions, grouting pressures, etc.

MasterRoc[®] TSG 16

STORAGE AND SHELF LIFE

MasterRoc TSG 16 should be stored at 5 - 35°C. If stored in original tightly closed drums it has a shelf life of 12 months.

HEALTH AND SAFETY

MasterRoc TSG 16 is not hazardous. It is ecologically and environmentally friendly and poses no threat to worker safety or the environment. However, it is recommended that all normal precautions be taken when handling the product, such as the use of eye protection and gloves.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet



A brand of
MBCC GROUP

MBS_CC-UAE/Roc_TSG16/v1/10_13