

MasterRoc[®] TSG 16

Tail Sealant for Shielded Tunnel Boring Machines (TBM)

Product 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

Fields of application

Tunneling with shielded TBMs equipped with a brush seal system.

Features and benefits

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

Packaging

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

Technical data

Form	Homogenous paste
Color	Light grey
Odor	Slight odor
Density [g/cm ³] 20°C	1.35 ± 0.1
Consistency ASTM D 217 [1/10 mm]	240±20
Matsumara sealing test	34.3 bar

Volatility	< 2%
ASTM D 972	
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.

Storage

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.

Safety precautions

MasterRoc TSG 16 is an inert material and 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

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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