

# MasterRoc<sup>®</sup> TSG 16

## Oil free 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

Tunnelling 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 fibre drums for press plate pumps.

### TECHNICAL DATA

<b>Form</b>	Homogenous paste
<b>Color</b>	Light grey
<b>Odor</b>	Light odor
<b>Density [kg/m3] 20°C</b>	1370 ± 50
<b>Consistency</b>	240±20
ASTM D 217 [1/10 mm]	
<b>Matsumara sealing test</b>	34.3 bar

<b>Volatility</b>	< 2%
ASTM D 972	
<b>Oil dropping point</b>	
ISO 2176	>170°C
<b>Thermal decomposition</b>	>180°C

### CONSUMPTION

The typical consumption rate varies between 0.8 and 1.5 kg/m<sup>2</sup> 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 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.

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