

# MasterRoc<sup>®</sup> TSG 6

## Tail sealant for shielded Tunnel Boring Machines (TBM)

### PRODUCT DESCRIPTION

**MasterRoc TSG 6** is a tail sealant for shielded tunnel boring machines. It effectively seals the gap between the shield and concrete segments to prevent the ingress of water, grout and soil. It is formulated to resist high water and ground pressures, and has excellent pumping properties and adhesion to all types of surfaces.

### FIELDS OF APPLICATION

Tunnelling with shielded TBMs equipped with a brush seal system.

### FEATURES AND BENEFITS

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

### PACKAGING

**MasterRoc TSG 6** is available in standard 70 kg or 250 kg steel drums for press plate pumps.

### TECHNICAL DATA

<b>Form</b>	Homogenous paste
<b>Colour</b>	Beige
<b>Odor</b>	Slight odour
<b>Density [kg/m<sup>3</sup>] 20°C</b>	1500 ± 10
<b>Consistency</b>	230±20
ASTM D 217 [1/10 mm]	
Viscosity (20°C, approx.)	
<b>@ shear rate 0,1/s</b>	580 Pa*s
<b>@ shear rate 100/s</b>	115 Pa*s

<b>Matsumara sealing test</b>	34.3 bar
<b>Volatility</b>	< 2%
ASTM D 972	
<b>Oil dropping point</b>	>170°C
<b>ISO 2176</b>	
<b>Thermal decomposition</b>	>180°C
<b>Sulfated Ashes</b>	>50%
<b>Insoluble matter</b>	>50%
<b>Water spray off</b>	< 5%
ASTM D 4049	

### 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 numerous factors such as segment surface conditions, curve drives, brush conditions, grouting pressures etc.

### STORAGE

**MasterRoc TSG 6** 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 6** 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.

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® = registered trademark of a MBCC Group member in many countries of the world

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**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.

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