

MasterRoc[®] TSG 6

Tail sealant for shielded Tunnel Boring Machines

MATERIAL 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 adhesion to all types of surfaces.

AREAS OF APPLICATION

Tunneling with shielded TBMs equipped with a brush seal system.

CHARACTERISTICS AND BENEFITS

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

TECHNICAL DATA

Form	Homogenous paste
Colour	Beige
Smell	Slight odour
Density kg/litre; 20°C	1500 ± 10
Consistency ASTM D 217 (1/10mm)	230 ± 20
Viscosity (20°C approx.)	
@ shear rate 0,1/s	580 Pa*s
@ shear rate 100/s	115 Pa*s
Matsumura sealing test	34.3 bar
Volatility ASTM D 972	< 2%
Oil dropping point ISO 2176	> 170°C
Thermal decomposition	> 180°C
Sulfated ashes	> 50%
Insoluble matter	> 50%
Water spray off ASTM D 4049	< 5%

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

PACKAGING

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

SHELF LIFE

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.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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DISCLAIMER

MasterRoc-TSG6 -ANZ-V8-0221

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