

MasterRoc[®] TSG 7

First Fill Tail Sealant for Shielded Tunnel Boring Machines (TBM)

Product description

MasterRoc TSG 7 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 grout pressures, and has excellent adhesion to all types of surfaces. It is designed as a first fill sealant.

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
- Good pumping properties if pumping system is moved close to the application location

Packaging

MasterRoc TSG 7 is available in standard 70 kg or 250 kg steel drums for press plate pumps.

Technical data

Form	Homogenous paste
Colour	Light grey
Odor	Slight odour
Density [kg/m³] 20°C	1700 ± 10

Consistency	200±20
ASTM D 217 [1/10 mm]	
Water spray off	< 5%
ASTM D 4049	
Matsumara sealing test	34.3 bar
Volatility	< 2%
ASTM D 972	
Oil dropping point	> 170°C
ISO 2176	
Thermal decomposition	> 180°C
Sulfated Ashes	> 50%
Insoluble matter	> 50%

The average consumption to fill a 3 row brush system is 50 kg per meter shield circumference.

Storage

MasterRoc TSG 7 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 7 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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