

MasterRoc[®] TSG 9

Tail Sealant for Shielded Tunnel Boring Machines (TBM)

Product description

MasterRoc[®] TSG 9 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 or soil. It is formulated to resist high water and ground pressures, and has excellent pumping properties and adhesion to all surfaces.

Fields of application

Tunneling 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 9 is packaged in standard 70 kg or 250 kg steel drums. Other drum sizes and packages are available on request.

Storage

MasterRoc[®] TSG 9 should be stored in unopened, original containers, preferably at 5 - 35°C. Shelf life is a minimum of 12 months.

Technical data

(Typical values)

Form	homogenous paste
Color	off white
Smell	characteristic
Density [kg/m ³] 20°C	1500 ± 30
Consistency	210 ± 10
ASTM D 217 [1/10 mm]	
Matsumura sealing test	34,3 bar
Sulfated Ashes	> 50%
Insoluble matter	> 50%

Consumption

Consumption will depend on numerous factors, such as segment surface conditions, curve drives, brush conditions, grouting pressures, etc. The usual consumption rate can vary between 0.8 – 1.5 kg/m² of segment outer surface area, but may well fall outside this range.

Safety precautions

MasterRoc[®] TSG 9 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.

An independent environmental risk assessment report is available on request.

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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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