

# MasterRoc<sup>®</sup> 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

Tunneling 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
Color	Light grey
Odor	Slight odor
Density [kg/m <sup>3</sup> ] 20°C	1700 ± 10
Consistency	200±20
ASTM D 217 [1/10 mm]	
Matsumara sealing test	34.3 bar
Volatility	< 2%
ASTM D 972	
Oil dropping point	
ISO 2176	> 170°C
Thermal decomposition	> 180°C
Sulfated Ashes	> 50%
Insoluble matter	> 50%
Water spray off	< 5%
ASTM D 4049	

### Consumption

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.



We create chemistry

# MasterRoc<sup>®</sup> TSG 7

---

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.

#### Headquarters:

**BASF SE**  
Underground Construction  
Salzachstr. 2-12  
68199 Mannheim  
Germany

Phone: +49 621 60 91013

For more information: Visit us: [www.master-builders-solutions.basf.com](http://www.master-builders-solutions.basf.com)

