

# MasterRoc<sup>®</sup> BSG I

## Main bearing sealant for Tunnel Boring Machines

### Description

MasterRoc BSG I is an excluder sealant for tunnel boring machines. It effectively protects the main bearing and prevents water, soil, and dust from entering into the main bearing sealing. It is formulated to resist high water and ground pressures, and has excellent lubrication and pumping properties as well as excellent adhesion to all surfaces.

MasterRoc BSG I excluder sealant is highly biodegradable and is based on renewable raw materials.

### Applications

Recommended for use in:

- TBM tunneling

### Features and Benefits

- Excellent sealing properties
- Excellent anti-washout properties
- Excellent adhesion to any metal or concrete surfaces
- Excellent pumping and lubricating properties
- 'Bio-sealant' entirely based on renewable or natural raw materials

### Performance Characteristics

#### Technical Data

#### Typical Values

Form	Homogenous paste, fibrous
Color	Black
Odor	None
Density	75 ± 3 lb/ft <sup>3</sup> at 68 °F (1200 ± 50 kg/m <sup>3</sup> at 20 °C)
Consistency ISO 2137 [1/10 mm]	250 to 280
4-ball wear DIN 51350:5 [mm]	< 0.9
Water wash out [98 °F (37 °C)] ISO 11009 [%]	< 5
Water spray off [77 °F (25 °C)] modified ASTM D 4049 [%]	< 7
Water resistance DIN 51807/1	0
Flash point (base oil)	> 545 °F (> 285 °C)
Biodegradation (base oil) CEC-L-33-A-93	> 90%

**Sealing elastomer compatibility:** Approved by Merkel & J. Walker



## Storage and Handling

**Storage Temperature:** MasterRoc BSG I excluder sealant should be stored in unopened, original containers, preferably between 40 °F and 95 °F (5 °C and 35 °C). Shelf life is expected to be 12 months minimum.

**Safety:** MasterRoc BSG I excluder sealant is not hazardous. It is ecologically and environmentally preferable 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.

## Packaging

MasterRoc BSG I excluder sealant is packaged in standard 132 lb (60 kg) and 507 lb (230 kg) steel drums. Other drum sizes and pack weights are available on request.

## Related Documents

Safety Data Sheets: MasterRoc BSG I excluder sealant

## Additional Information

For additional information on MasterRoc BSG I excluder sealant, contact your local sales representative.

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