

# Cormix® TBM TS2

## FIRST FILL TAIL SEALANT FOR SHIELDED TUNNEL BORING MACHINES (TBM)

### DESCRIPTION

**Cormix TBM TS2** is used with shielded tunnel boring machines it effectively seals the gap between the shield and precast concrete segments preventing the ingress of soil, water or grout.

**Cormix TBM TS2** is used as a "first fill" sealant to resist water and ground pressures and not breakdown under high mechanical pressures.

After the initial "first fill" application, the use of pumpable grade such as **Cormix TBM TS1** sealant is required to ensure effective TBM tail shield protection. It has been formulated to resist high ground and water pressures, has excellent sealing properties and adheres to all types of surfaces.

**Cormix TBM TS2** has been developed with a natural oil based formula to avoid any spoil contamination it is specifically developed for safe use in built up areas and elsewhere where ground water could be in contact with TBM excavations avoiding any pollution to the environment.

### USES & ADVANTAGES

Use with shielded TBMs equipped with a brush seal system

**Advantages include:-**

- Excellent sealing properties and wash out resistance.
- Excellent adhesion to most substrates.
- Excellent pumping properties.
- Produced using natural oils environmentally friendly. Biodegradable.
- Economical compared to traditional formulas.
- Fire resistant.
- Good stability under varying temperatures & pressure.
- Good adhesion to concrete & steel.
- No harmful effects on sealing gaskets.
- Formulated to resist high pressures.

### PROPERTIES

<b>Colour:</b>	Light grey
<b>Appearance:</b>	Homogenous paste
<b>SG/Density:</b>	1.50 - 1.60 kg/ltr
<b>Water spray off:</b>	< 5 %
<b>Thermal Decomposition:</b>	> 180 °C
<b>Volatility:</b>	< 1 %
<b>Flash Point:</b>	> 200 °C
<b>Water pressure resistance:</b>	8 bar
<b>Pass 1.0 mm Mesh</b>	> 5 minutes
<b>Pass 0.5 mm Mesh</b>	> 5 minutes

### CONSUMPTION

The approx. consumption to fill a 3 row brush system is 45-50 kg per metre shield circumference.

Consumption will vary depending on many factors such as segment surface condition, segment alignment, curves, brush conditions, grouting pressures etc.

### PACKAGING

20 and 250 kg steel drums packing may be adjusted to meet the needs of the job.

### STORAGE & SHELF LIFE

Store in original unopened drums at between 5- 35°C. The shelf life is then 12 months.

### HEALTH & SAFETY

**Cormix TBM TS2** is an inert material and not hazardous. It is environmentally friendly and does not pose health hazards.

Normal precautions should be taken when handling the product such as the use of eye protection and gloves. Please refer to the MSDS

### TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE

ISO 9001: 2008 verified by TUV Nord.

### DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.

Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product. Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

### CONTACT DETAILS

**Cormix International Limited**  
89 Romklao Rd., Sansab, Minburi, Bangkok 10510  
Tel. (66 2) 917 3955-8  
Fax. (66 2) 917 3959, 543 8891  
<http://www.cormix.com>  
E-mail: [info@cormix.com](mailto:info@cormix.com)

Rev.003 Nov 2017