

# Cormix® TBM TS1

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

### DESCRIPTION

**Cormix TBM TS1** 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.

It has been formulated to resist high ground and water pressures, has excellent pumping qualities and adheres to all types of surfaces.

**Cormix TBM TS1** 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 excavation 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>	Beige
<b>Appearance:</b>	Homogenous paste
<b>SG/Density:</b>	1.45 - 1.55 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

Typical consumption rates are 0.75kg -1.4kg/m<sup>2</sup> of segment outer surface area but may vary around this. Consumption will vary depending on many factors such as segment surface condition, segment alignment, curves, brush conditions, grouting pressures etc.

### PACKAGING

20 kg 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 TS1** 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: 2015 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

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Rev.005 Oct 2018