

# BMS TD-Bolt

## TECHNICAL DATA SHEET

**BMS TD-Bolt** is a ready-to-use dry powder formulated as a **high-strength, thixotropic cementitious anchoring grout** for “top-down” grouting of cable bolts and long tendons in underground mining applications.

Engineered for **pumpability, high early strength, and non-shrink/expansive annulus fill**, BMS TD-Bolt ensures consistent annulus fill and strong bonding for dependable ground support and performance in both **competent rock and poor, fractured or broken ground conditions**.

### FEATURES & BENEFITS

- **High Early Strength:** Minimises the risk of strata separation and/or slippage during early curing.
- **Thixotropic:** Supports “top-down” grouting and performance in competent and poor ground conditions alike.
- **Excellent Pumpability:** Designed to pump over long distances to improve underground installation workflows.
- **Safe:** Non-toxic and non-flammable.

### TYPICAL APPLICATIONS

- Top-down grouting of cable bolts and long tendons in underground coal and hard rock mines.
- Stabilisation of roof strata in development headings and production panels, particularly where early support capacity is desirable.

### TECHNICAL DATA

BMS TD-Bolt undergoes regular in-house and periodic third-party quality control testing.

Technical Parameter		Water-to-Solids Ratio (w:s)	
		6L per 20kg Bag (0.300:1 w:s)	7L per 20kg Bag (0.350:1 w:s)
1-Day UCS	MPa	50	40
7-Day UCS	MPa	70	60
28-Day UCS	MPa	90	80
Fresh Wet Density	kg/m <sup>3</sup>	2040	2000
Working Time <sup>[1]</sup>	mins	120	
Pumping Distance <sup>[2]</sup>	m	Tested up to 80 m	

Note: The stated unconfined compressive strength (UCS) values are typical of in-house testing conducted on 50 mm cubes mixed using Toowoomba Regional Council potable water, cast in steel moulds, and submerged-cured at 23°C. Performance-based properties, such as strength, working time, pumpability, etc, are highly-dependent on water-to-solids (w:s) ratios, mixer and pump type, addition of admixtures, and end-user applications and requirements. <sup>[1]</sup> Working time is defined as the total time available to mix, pump/apply, and clean out the mixing equipment (mixing bowl). <sup>[2]</sup> Performance achieved using a Clark Model M150 grout pump with 4 × 20 m lengths of 25 mm internal diameter air/water hose, with 60–70 psi air supply.

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## PACKAGING

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- Typically, 20 kg paper bags (palletised).
- Additional packaging options are available on request.
- All orders include Proof of Dispatch (POD) documentation with batch identification numbers and manufacturing dates for traceability.

## SHELF-LIFE & STORAGE CONDITIONS

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- **Shelf-Life:** Best used within 6 months from the date of manufacture when stored as recommended. Product may be fit for purpose beyond 6 months, subject to assessment of storage conditions and verification testing of grout properties.
- **Storage Conditions:** Store unopened and undamaged packages in a cool, dry environment below 30°C. Shelf-life may decrease if exposed to high temperatures and/or high humidity, or external weather conditions.

## SAFETY INFORMATION

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- Cementitious grout dust is an irritant—avoid inhalation or skin/eye contact.
- Wear protective gloves, clothing, eye and face protection.
- Ensure adequate ventilation during mixing and application.
- In case of contact with the eyes, rinse with running water for 15 mins and remove contaminated clothing.
- Always consult the Safety Data Sheet (SDS) prior to handling or use.
- For detailed safety information, refer to the latest SDS available at [www.bmscement.com](http://www.bmscement.com).

## CONTACT INFO

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### Important Notice

Always refer to the BMS Specialty Cements website ([www.bmscement.com](http://www.bmscement.com)) for the latest Technical Data Sheet (TDS) and Safety Data Sheet (SDS). Please read the SDS carefully prior to using this product. In an emergency, contact any Poisons Information Centre (Phone: 13 11 26 within Australia).

Recommendations and advice provided herein are intended as guidelines only. The manufacturer and affiliated companies shall not be liable for any loss or damage resulting from improper or incorrect use of this product. Product usage is beyond the manufacturer's control; liability is limited solely to the replacement of the material should it be proven defective. While every effort has been made to ensure accuracy and completeness, the manufacturer reserves the right to update or amend product information without prior notice. No express or implied warranty is provided concerning the product's performance or suitability for any specific application.