

BMS HY-10

TECHNICAL DATA SHEET

BMS HY-10 is a versatile, **high-yield cementitious grout** engineered for void and cavity filling, ground consolidation, and general-purpose grouting applications where fast setting is beneficial.

With a controlled **10-minute gel time** producing steady strength gains at high water-to-solids (w:s) ratios, BMS HY-10 is ideal for situations requiring fast turnaround and reduced downtime, without compromising on pumpability or strength development.

FEATURES & BENEFITS

- **High-Yield:** Optimised w:s ratio for greater volume per tonne. Foaming version available upon request.
- **Gel Time:** Initial gel time of 10 minutes at 2:1 w:s ratio and 23°C ambient temperature.
- **Versatile Application:** Suitable for cavity and void filling in mining, tunnelling, and civil construction applications.
- **Steady Strength Gain:** Reliable compressive strength development.
- **Safe:** Non-toxic and non-flammable.

TYPICAL APPLICATIONS

- Bulk void and cavity filling in civil and mining works.
- Backfilling of mine stopes, tunnels, and underground workings.
- Ground and fractured rock mass stabilisation.
- Construction of cut-off walls and bulkheads.

TECHNICAL DATA

BMS HY-10 undergoes regular in-house and periodic third-party quality control testing.

Technical Parameter		Water-to-Solids Ratio (w:s)		
		1.5:1	2.0:1	2.5:1
2-Hour UCS	MPa	3.0	1.5	1.0
1-Day UCS	MPa	5.0	2.5	1.5
3-Day UCS	MPa	7.0	3.5	2.5
7-Day UCS	MPa	8.0	3.5	3.0
28-Day UCS	MPa	10.0	4.0	3.0
Fresh Wet Density	kg/m ³	1350	1280	1230
Gel Time @ 23°C	mins	~5	~10	~15

Note: The stated unconfined compressive strength (UCS) values are typical of in-house testing conducted on 75 mm cubes mixed for 10 minutes using Toowoomba Regional Council potable water, cast in polystyrene moulds, and dry-cured at 23°C. Performance-based properties, such as strength, gel time, bleed, etc, are highly-dependent on w:s ratios, mixer and pump type, addition of admixtures, and end-user applications and requirements.

BMS HY-10

PACKAGING

- Typically, 1.0 and 1.2 tonne bulk bags.
- 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

- **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

- 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.

RELATED PRODUCTS

- [BMS HY-30](#); [BMS HY-60](#).

CONTACT INFO

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Important Notice

Always refer to the BMS Specialty Cements website (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.