



HexMortar™
BUILD BETTER. STRONG SHOTCRETE THAT STICKS.

Technical Data Sheet

HexMortar™ TMG-31007 is a graphene enhanced Dry Mortar for shotcrete and pumping applications. HexMortar™ TMG-31007 uses graphene that is specifically designed for inclusion in cementitious composites to deliver performance enhancements.



- Less rebound
- Penetrates gaps easily
- Easier and faster to work
- Less waste
- Sticks better
- Gets stronger quicker
- Great floating off finish

CHARACTERISTICS

Formulated to increase flexural and compressive strength of dry mortars quickly and permanently. Flexural and compressive strength are increased with strength benefits being gained immediately. Workability is unaffected and rebound is reduced.

Uses

Ideal for large scale new and repair works where mortar application can be carried out using a dry spray system. It is possible to use as a wet spray application after conducting trials to find the optimal mix design for your equipment. Typical uses may include:

- Overhead and tunnel works where rebound must be at a minimum.
- Mortar repairs requiring early strength.
- Plaster coating of walls and structures - rough or smooth.

Contact Us - contact.gtm@gtmaction.com

PRODUCT INFO

Format:	Cementitious powder.
Packaging:	20 kg bag or 1 tonne bulk bag - minimum order 1 tonne.
Storage Conditions:	Store in unopened original packaging in cool dry conditions off the floor in a manner where moisture cannot come into contact with the bag or its contents.
Shelf Life:	12 months from date of manufacture if recommended storage followed.
Per Order Duration:	30 to 90 days.

APPLICATION INFO

- Mixing Ratio Water/Cement ratio: Approx. 15% to 25%
- Yield: 20 kg of powder = approx. 14.5 litres of sprayed material
- Layer Thickness: 10 mm minimum coat thickness
- Air Temperature Application temperature: $>5^{\circ}\text{C}$
- Refer to product Safety Data Sheet prior to use and always wear Protective Personal Equipment

TECHNICAL DATA

- When mixed correctly flexural strength $> 1.2\text{kN}$ (Load) at 28 days
- When mixed correctly compressive strength $> 11\text{ MPa}$ at 28 days
- Appearance / Colour Grey / Dark Grey powder.
- Maximum Grain Size 2mm
- 68% by volume of dried graded sand, to comply with NZS 3103
- 32% by volume General Purpose Portland Cement complying with NZS 3122, 3123 or 3125.
- Graphene Powder size $50\mu\text{m}$, plus additives

WARRANTY STATEMENT

The information, and recommendations relating to the application and end-use of HexMortar™ product is given in good faith based on the manufacturers, and or resellers, current knowledge and experience of the product when properly stored, handled and applied under normal conditions in accordance with recommendations. The differences in materials and usage environment are such that no warranty in respect of fitness for a particular purpose can be implied from this information, or from any other source of information relating to the product.

Contact Us - contact.gtm@gtmaction.com