



# M-BED NON-SHRINK GROUT

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## DESCRIPTION

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M-Bed is an expanding non-ferrous structural grout, consisting of a dry, pre-mixed blend of Portland Cement and graded, siliceous aggregate with reactive chemical agents.

## USES

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- Ideal for grouting of machine bases, column bases (steel and precast concrete), anchor bolts, precast panels, underpinning, conveyor supports, crane rails and other similar grouting applications.

## FEATURES AND BENEFITS

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- Controlled expansion ensures positive contact and load transfer which is essential for structural grouting applications.
- Contains no calcium chloride additives so there can be no rusting or straining of metal contacts or reinforcement.
- Easy to use, requires the addition of water only.
- Reaches in excess of 75% of final compressive strength in seven (7) days enabling early operation of plant and equipment.
- Contains no iron which otherwise would result in staining and destruction of the grout.
- May be pumped, hand rodded, trowelled, rammed and flowed into intricate areas or other areas where normal grouting methods do not suffice, making application more effective and convenient.
- Low water requirements particularly in the plastic state results in high early strength and long term performance.
- No segregation upon mixing ensures uniform results.

## SURFACE PREPARATION

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- For all surfaces, loose contaminants and unsound concrete must be chipped away so

that a reasonably rough, but strong sound surface is provided.

- All surfaces must be free from oil, grease and dust. This particularly applies to the underside of bedplates, bolts, pipes or other materials, which may have surface contact with the grout.
- After cleaning, saturate the concrete surface with clean water for approximately 6 hours prior to applying M-Bed. Ensure that no freestanding water is present on surfaces of foundations or in bolt holes.

## APPLICATION

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- Add clean water to M-Bed. Use as little water as is required in the mix for ease of placement. Water addition is recommended as set out below:

### Flowable Grout:

- Up to 4 litres water to 20kg bag of M-Bed

### Plastic Grout Mix:

- Approximately 3 litres to 20kg bag of M-Bed

### Dry-Pack Grout Mix:

- Approximately 2 litres to 20kg bag of M-Bed
- Adjustments to the mixing ratio may be required depending upon site conditions. Ideally, mixing water and substrate should be above the lower application temperature limit of 5°C and below 30°C to avoid settling of the mix before initial set. Small trial batches to ascertain the best working consistency for the operation are recommended.
- Place half the required amount of water into the mixing vessel and slowly add the powder while mixing. Gradually add the remainder of the water to achieve the desired consistency. Job placement conditions, including temperature, may require some adjustments. Mix with an electric drill and paddle or in a pan or revolving barrel type mixer. Do not mix by hand. Allow approximately 5 minutes mixing to achieve maximum results. M-Bed grout should be placed within 1 1/2 hours of mixing. During that time keep material in mixer well agitated. After half an hour discard any grout mix that shows signs of stiffening.



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- Flowable M-Bed may be placed with low-pressure cement grouting equipment or may be hand rodded into restrained sections. High points must be adequately vented to allow entrapped air to escape.
- Plastic M-Bed mortar may be rodded into place or trowel handled where freedom of movement permits. Consistency can range from thick cream to smooth plastic.
- Dry Pack M-Bed mortar must be firmly pressed or rammed into place. Use metal or hardwood tamping tools and suitable trowel equipment. Consistency should allow pressuring into a firm hard ball without cracking.

## PRECAUTIONS

- M-Bed is not defined as a dangerous good by Australian Code for the Transport of Dangerous Goods by Road and Rail. M-Bed is alkaline in nature such that repeated and prolonged skin contact should be avoided by wearing gloves, safety glasses and respiratory mask where dust may be generated.
- For full safety data on this product, please contact Vespol's state office.
- Like all cementitious mortars and concrete, M-Bed must be protected against rapid drying due to high temperatures and/or strong winds.

## COVERAGE

**DRY PACK:** approximately 94 x 20kg bags will grout 1m<sup>3</sup>.

**PLASTIC PACK:** approximately 90 x 20kg bags will grout 1m<sup>3</sup>.

**FLOWABLE:** approximately 86 x 20kg bags will grout 1m<sup>3</sup>.

## CLEAN UP

M-Bed should be removed from tools and equipment immediately after use with clean water.

Any cured material may be removed by mechanical means.

## PACKAGING

M-Bed is available in 20kg moisture resistant multiwall bags.

## SHELF LIFE

Up to 12 months in unopened bags stored in a cool dry elevated place.

## TECHNICAL DATA

Properties:

<b>Appearance:</b>	Grey Powder
<b>Expansion (after 11/2 hours):</b>	1 – 4%
<b>Compressive Strength (Mpa):</b>	<b>Plastic</b>
24 Hours	26
3 days	46
7 days	57
28 days	69
<b>Initial Set (At 22°C):</b>	Approx 1 1/2 hours
<b>Final Set (At 20°C):</b>	Approx 4 hours
<b>Application Thickness:</b>	10-100mm

## DISCLAIMER

*The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. All workmanship must be carried out in accordance with the relevant standards.*

*The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.*

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