

Safety and Ordering

SAFETY

Avoid direct skin contact with both wet and dry cements. Avoid breathing cement dust by wearing a P1 or P2 dust mask suitable for airborne dust. Wear appropriate protective clothing and footwear.

Additional information in the form of material safety data sheets is available on request. Phone 1300-138-996.



FIRST AID

In the event of skin contact wash with clean water to minimise possible irritation. If material gets into eyes wash immediately and repeatedly with eye wash solution or clean water.

NEED TECHNICAL HELP?

For more information contact Technical Support on our help-line 1300-138-996.

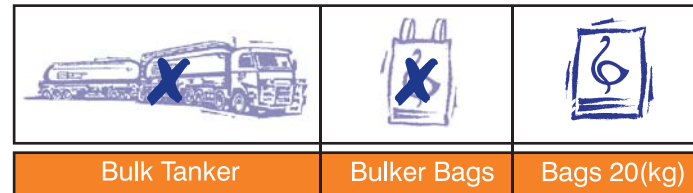
SALES AND ORDERING:

Customer Service Centre:
(08) 9411 1166

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Marvelime is available in:



MARVELIME®

MARVELIME



PRODUCT INFORMATION

Swan Cement®

PRODUCT INFORMATION AND PROPERTIES

Marvelime is derived from high quality quicklime (CaO), via a grinding and slaking process. It is produced to conform fully with the requirements of AS 1672 'Building Limes'.

The *Marvelime* product incorporates a carefully measured amount of air-entraining agent to further enhance its ability to impart excellent water retention and plasticity to mortars for the normal range of bricks, sands and climates. When using the *Marvelime* product with *Swan Cement* products, no other workability aids are necessary. The *Marvelime* product will impart a self healing characteristic to mortars known as autogenous healing. This means if fine cracks appear in the mortar, exposed unreacted calcium hydroxide will react with carbon dioxide in the air, allowing the reformation of calcium carbonate crystals to 'grow' into the cracks.

This self healing of lime based mortars has long been recognised as being important. Other workability agents for mortar do not impart this quality.

The *Marvelime* product will also enhance the durability of mortars as the high water retention prevents excessive absorption of mix water into masonry units. The longer the water is retained in mortar, the better the cement will cure thus enhancing the ultimate strength development of the mix. Bond strength is also enhanced by the high plasticity imparted by the *Marvelime* product. This enables the mortar to be squeezed into the cores and pores in each masonry unit thus improving both bond and the seal against the ravages of the weather.

The *Marvelime* product is also ideally suited for most plastering applications. Again its ability to impart excellent water retention and plasticity to correctly proportioned renders means that it is an automatic choice for plastering.

Render Guide

Use	Substrate	Mix Ratios By Volume			Type GP Cement 20kg bags	<i>Marvelime</i> 20kg bags
		Type GP Cement	<i>Marvelime</i>	Plasterers Sand		
Float/base coat	Dense Concrete	1	1	5	12	5
	Clay Bricks	1	1	7	10	4
	Calcium Silicate	1	1.5	6	10	6
	Concrete Block	1	1	6	11	4
	Limestone	1	2	9	8	6
	Plaster Blocks	1	1	7	10	4
Sand finish base coat		1	1	4.5	13	5
Sand finish top coat		1	1	5	12	5

Render Notes:
Approximately 1.2m³ of damp sand is required for 1m³ of render. Estimate based on 1m³ of render covering 100m² at 10mm thickness.



Mortar Guide

Mix	Masonry Exposure Environment
M4	Retaining Walls. Walls located within 1km of a surf coastline or 100m of a non-surf coastline e.g. estuary and coastal river zones. Walls within 1km of significant industry that releases chemical pollutants.
M3	Walls between 1km and 10km of a surf coastline or between 100m and 1km of a non-surf coastline e.g., estuary and coastal river zones. Walls in contact with fresh water or the ground in non-aggressive soils. Interior walls not subject to wetting and drying.
M2	Internal walls subject to wetting and drying of a non-saline character. External above ground walls further than 10km of a surf coastline or further than 1km of a non-surf coastline e.g., estuary and coastal river zones.

Mix Design - Parts by Volume

Mix	Type GP Cement	<i>Marvelime</i>	Brickies Sand
M4	1	0.5	4.5
M4 alternative mix	1	0.25	3
M3	1	1	6
M2	1	2	9

Estimated quantities to place 1000 std. bricks (230L x 110W x 76H)

Mix	Type GP Cement (20kg bags)	<i>Marvelime</i> (20kg bags)	Brickies Sand (m ³ estimate)
M4	8	1.5	0.6
M4 alternative mix	11	1	0.6
M3	7	2.5	0.6
M2	5	3.5	0.6



APPLICATIONS

Although formulated for use in masonry mortar, *Marvelime* is also suitable for many lime applications including:

- Removing oil-grease from concrete
- Plant fertiliser/compost additive
- White wash
- Animal Sanitation
- Soil Stabilisation
- pH modification of soils
- Acid and chemical neutralisation

Note:- for detailed information on the types of lime available and their applications please call our technical help line on (08) 9411 1111.

Premix	Site Mix	Brickwork	Moulded	Product Renders

GENERAL NOTES

- Use only recommended mortar and plastering sands free from clay and organic contamination.
- Keep water content to the minimum required for mixing and placing. The more water, the lower the strength.
- Use a standard sized vessel e.g., a bucket, to measure all materials.
- Admixtures should only be used according to the manufacturers instructions.
- Quantities estimated are typical industry usage and will vary according to individual use patterns.
- For additional DIY information please refer to www.swancement.com.au

Marvelime is distributed in 20kg bags from company depots and distributors throughout Western Australia.

Sales information and technical enquiries should be directed to (08) 9411 1111.

