



METCELL™ Class A Water Thickener For a Better Mortar Mix

AS RECOMMENDED, AUSTRALIAN
MASONRY STANDARDS; AS4773.1:2015
AND AS3700-2011

- ❖ IMPROVES MORTAR WORKABILITY,
BOND STRENGTH AND DURABILITY OF
FINISHED MASONRY
- ❖ INCREASES PRODUCTIVITY ON SITE AND
MAKES LAYING EASIER
- ❖ REDUCES MIXING TIME AND EXTENDS
WORKING LIFE OF MORTAR
- ❖ AVOIDS RELIANCE ON AIR ENTRAINING
MORTAR PLASTICISERS OR BANNED ADDITIVES
- ❖ REDUCES AMOUNT OF WATER REQUIRED IN
THE MORTAR MIX
- ❖ RETARDS WATER EVAPORATION AND AIDS
BRICKWORK CURING



METCELL™ is easy to use. Dry powder dissolves easily and clear into fresh clean water. Instructions over.
AVAILABLE in 1.0Litre or 5.0Litre plastic tub with measuring cup provided

**Ask for METCELL™ at your local Hardware reseller or
Order Online www.metcell.com.au**



METCELL

For further information
Or Buy Online;
www.metcell.com.au

METCELL™ is a division of Helisyd Pty Ltd
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METCELL™ is a methyl cellulose based water thickener which improves the workability and quality of mortar. It is recommended by Australian Masonry Standards and masonry Specifiers and is NOT an air entraining additive (AEA).

Although many AEA's have been outlawed, their use continues on poorly supervised building sites and despite studies showing that the practice can have a serious detrimental effect on mortar quality .(1, 2, 3)

MORTAR MIXES

REFER AUSTRALIAN MASONRY STANDARDS, TABLE 11.1 AS3700 – 2011 OR TABLE 3.1 AS4773.1:2015

AS 4773.1:2015

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TABLE 3.1
MORTAR MIXES

Mortar class	Mix proportions by volume					Mortar suitability		
	Cement (GB/GP)	Masonry cement	Building lime	Sand	Water thickener	Fired clay	Concrete	Calcium silicate
M2	1	0	2	9	No	✓	×	×
M3	1	0	1	6	Optional	✓	✓	×
	1	0	0	5	Yes	✓	✓	✓
	0	1	0	4	Yes	✓	✓	×
M4	1	0	0.5	4.5	Optional	✓	✓	×
	1	0	0	4	Yes	✓	✓	✓
	1	0	0-0.25	3	Optional	✓	✓	×
	0	1	0	3	Yes	✓	✓	×

LEGEND:

✓ = satisfactory

× = unsatisfactory

Type GP = general purpose portland cement.

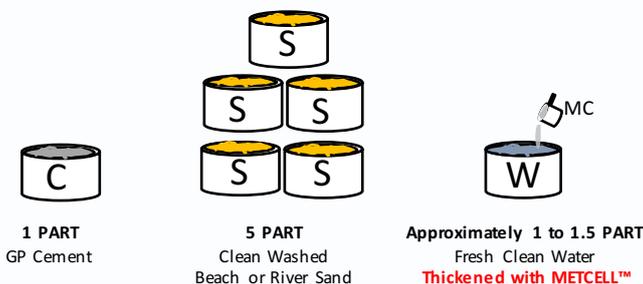
Type GB = general purpose blended cement.

NOTES:

- 1 Mortar mixes are designated by the proportions of their ingredients following an initial letter, the chief cementing agent being given as unity (e.g. C 1:L 0.5:S 4.5 or C 1:S3).
- 2 Volumes refer to materials in the dense-packed condition.
- 3 The water thickener referred to in this Table is cellulose based. The particular cellulose-based product used is to be specifically suited for this application and used in accordance with the manufacturer's or supplier's instructions. For further information, refer to AS 4773.2.

MIXING INSTRUCTIONS

Example: M3 Classification Mortar Mix 1:0:5 + Water Thickener



Add and dissolve one percent (1%) METCELL™ Water Thickener additive to volume of fresh clean water required for the mortar mix. E.g. 10ml to each 1000ml, or 50ml to each 5 Litres of water. Use the measuring cup provided.

REFERENCES

1. Bond Strength In Masonry Construction, Technical Note 65, Cement and Concrete Association of Australia, 2001.
2. Durability Of Masonry Mortar, Technical Note 67, Cement and Concrete Association of Australia, 2007.
3. The Influence Of Air Entraining Agent On Bond Strength And Mortar Microstructure, Sugo, H. O.; Page, A. W.; Lawrence, S. J. 6th Australasian Masonry Conference. Proceedings of the 6th Australasian Masonry Conference: Adelaide, South Australia, 12-13 July 2001 (Adelaide 11-12th July, 2001) p. 357-362.

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