

CONCRETE

HOW MUCH DO I NEED?

Before commencing concreting operations, sufficient materials should be stockpiled. To calculate quantities required multiply length x width x thickness. For example: 10m (length) x 15m (width) x 50mm (depth) = 10 x 15 x 0.05 = 7.5m³ of concrete.

APPLICATIONS	MIX (BY VOLUME)			MATERIALS (required to make 1 cubic metre of concrete)		
	Swan® Cement	Concrete Sand	Coarse Aggregate	Swan® Cement 20kg bags	Concrete Sand cubic metre	Coarse Aggregate cubic metre
High structural strength concrete, thin reinforced walls, slender reinforced columns, fence posts, heavy duty floors.	1	1.5	3	18	0.4	0.9
Commonly adopted mix for reinforced concrete beams, floor slabs, residential driveways and paths.	1	2	4	14	0.4	0.9
Footings for domestic buildings and walls.	1	2.5	5	12	0.5	0.9
Toppings for two-course concrete paths.	1	1	2	26	0.5	0.8

NOTE ALL ABOVE MIXES YIELD AN AMOUNT OF CONCRETE SLIGHTLY MORE THAN THE QUANTITY OF COARSE AGGREGATE USED IN THE MIX.

WATER ADDITION

Add only enough water to make the concrete workable. Excessive water can greatly reduce concrete strength. If unsure, please call our technical helpline on 1300 138 996

GENERAL TIPS

1. Only concrete sand should be used.
2. Sand should be clean graded, free from excessive clay and fine silts.
3. Above information is in accordance with the manufacturers recommendations on reverse side of bag.
4. Above estimates only to be used as a guide.
5. Coarse aggregate should be 50/50 mix of 20 mm and 10 mm stone.

SWAN® RAPID SET, 50/50 GREY, 50/50 CREAM, SWAN® CEMENT, SWAN® COASTAL CREAM M4, MARVELIME, BRIGHTONLITE, FLOATCEM AND THE SWAN® CEMENT LOGO ARE TRADE MARKS OF ADELAIDE BRIGHTON CEMENT LIMITED AND RELATED BODIES CORPORATE.

DRY MIXED PRODUCTS - JUST ADD WATER

SWAN® GENERAL PURPOSE CONCRETE

SIZE	CUBIC METRES PER BAG	BAGS PER CUBIC METRE
20 kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³
30 kg bags	0.014 m ³ per bag 14 Litres per bag	70 bags per m ³

SWAN® RAPID SET CONCRETE

SIZE	CUBIC METRES PER BAG	BAGS PER CUBIC METRE
20 kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³

NOTE RAPID SET IS NOT RECOMMENDED FOR LOAD BEARING APPLICATIONS

SWAN® GREY MORTAR

SIZE	STANDARD BRICKS PER BAG (10MM JOINT)	BAGS PER 1000 STANDARD BRICKS
20 kg bags	28 bricks per bag	36 bags

NOTE 1 - STANDARD BRICK MEASURES 230mm L X 110mm W X 76mm H
2 - SWAN MORTAR PACKS WILL PRODUCE AN M3 CLASS MORTAR WHEN MIXED AND PLACED IN ACCORDANCE WITH THE AS 3700 MASONRY CODE

SWAN® CREAM MORTAR

SIZE	STANDARD BRICKS PER BAG (10MM JOINT)	BAGS PER 1000 STANDARD BRICKS
20 kg bags	28 bricks per bag	36 bags

DISCLAIMER

Swan Cement is not liable for any losses incurred by anyone using this guide as usage can vary depending on brick type and other factors.

For further technical assistance please ring 1300 138 996 or visit our website www.swancement.com.au

Swan Cement
Sales & Marketing Department
Lot 242 Russell Road East, Munster 6166
08 9411 1111 | sales@cockburncement.com.au
ABN 50 008 673 470

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CEMENT
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READY RECKONER

YOUR POCKET GUIDE TO MIXING CEMENT

BUILDING A STRONGER WA SINCE 1927

MORTAR

NOTE THE FOLLOWING QUANTITIES ARE BASED ON APPROXIMATELY 0.6M³ DAMP BRICKLAYING SAND, WHICH WILL LAY APPROXIMATELY 1,000 STANDARD BRICKS (230mm L X 110mm W X 76mm H). ALL MORTARS MUST BE MIXED AND PLACED AS PER AS 3700 MASONRY STRUCTURE. ADDITIONAL AIR ENTRAINER AGENTS ARE NOT RECOMMENDED.

APPLICATION	BRICK TYPE	MORTAR COLOUR	MIX RATIO BY VOLUME			BAGS PER 1000 STANDARD CLAY BRICKS (STANDARD BRICK SIZE 230L X 110W X 76H)
			CEMENT	LIME	SAND	
M4 MORTAR CLASSIFICATION - Retaining walls - Below ground walls - External above ground walls (within 1km of surf coastline or within 100m of a non surf coast) - Walls in Industrial Environments	Clay (Solid)	Grey	1	0.5	4.5	8 Swan® Grey Cement + 1.5 Marvelime®
				0.25	3	11 Swan® Grey Cement + 1 Marvelime®
	Clay (Cored) Concrete	Creme	1	0.5	4.5	8 Brightonlite® + 1.5 Marvelime®
				0.25	3	11 Brightonlite® + 1 Marvelime®
			0	3	9 Swan® Coastal Cream M4	
M3 MORTAR CLASSIFICATION - External above ground walls (from 1km to 10km of coastline or from 100m to 1km of non-surf coastline, in Residential Areas, excluding retaining walls) - Walls in contact with fresh water	Clay (Solid)	Grey	1	0	3	10 50/50 Grey®
	Clay (Cored)	Grey		1	6	7 Swan® Grey Cement + 2.5 Marvelime®
	Concrete	Creme	1	0	3	10 50/50 Cream®
				1	6	7 Brightonlite® + 2.5 Marvelime®
	Reconstituted Limestone	Federation White	1	1	6	7 Brightonlite® + 2.5 Marvelime® [with white sand]
M2 MORTAR CLASSIFICATION - External above ground walls (further than 10km from coastline excluding retaining or below ground walls) - Internal above ground walls (non-load bearing)	Clay (Solid) Clay (Cored)	Grey	1	0	3	10 50/50 Grey®
		Creme	1	0	3	10 50/50 Cream®
	Natural Limestone	Limestone	1	2	9	5 Brightonlite® + 3.5 Marvelime®

RENDER

NOTE THE FOLLOWING CALCULATIONS ARE BASED ON 1.2M³ DAMP PLASTERING SAND FOR EACH 1M³ OF RENDER

INTERNAL RENDERS	MIX RATIO (VOL)			Cement	Marvelime®	
FLOATING	C	L	S	Bags per 100m ² @10 mm		
12 kg Floatcem®	1	0	5	17	0	
20 kg Floatcem®	1	0	5	13	0	
20 kg Swan® Grey Cement	1	1	7	10	3	
17.85 kg 50/50 Grey®	1	0	3.5	15	0	
GLASS FACED RENDER [DADO]	C	L	S	Bags per 100m ² @10 mm		
BASE COAT	12 kg Floatcem®	1	0	3	26	0
	20 kg Floatcem®	1	0	3	16	0
	20 kg Swan® Grey Cement	1	0.5	4.5	14	3
FINISH COAT	12 kg Floatcem®	1	0	1	50	0
	20 kg Floatcem®	1	0	1	26	0
	20 kg Swan® Grey Cement	1	0.5	1.5	22	4
EXTERNAL RENDERS	MIX RATIO (VOL)			Cement	Marvelime®	
SAND FINISH TOP COAT (GREY)	C	L	S	Bags per 100m ² @10 mm		
12 kg Floatcem®	1	0	4	21	0	
20 kg Floatcem®	1	0	4	13	0	
20 kg Swan® Grey Cement	1	1	5	12	4	
17.85 kg 50/50 Grey®	1	0	2.5	19	0	
SAND FINISH TOP COAT (CREME)	C	L	S	Bags per 100m ² @5 mm		
20 kg Brightonlite®	1	1	6	6	2	
17.85 kg 50/50 Cream®	1	0	3	9	0	
BAG WASH	C	L	S	Bags per 100m ² @5 mm		
20 kg Brightonlite®	1	1	5	6	2	
17.85 kg 50/50 Cream®	1	0	2.5	10	0	
SCREEDING	MIX RATIO (VOL)			Cement	Marvelime®	
FLOOR SCREED	C	L	S	Bags per 100m ² @10 mm		
20 kg Swan® Grey Cement	1	0	4	16	0	

NOTE ALL RENDER MIX RATIOS ARE FOR STANDARD CORED CLAY BRICKS. ALL MIX RATIOS ARE BY VOLUME E.G. GAUGING BUCKET. ONLY USE GOOD QUALITY PLASTERING SAND. ADDITIONAL AIR ENTRAINING AGENTS ARE NOT RECOMMENDED