

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. Always add between 10 and 15% for wastage. For example: 10m (length) x 15m (width) x 50mm (depth) = 10x15x0.05 = 7.5m³ + 10% waste = 8.25m³. When sand is damp, water quantities may need to be reduced by up to 20%.

APPLICATIONS	MIX (in parts)			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 for thin reinforced walls, slender reinforced columns, fence posts, heavy duty floors.	1	1.5	3	18	0.4	1
Commonly adopted mix for reinforced concrete beams, floor slabs, driveways and paths.	1	2.0	4	14	0.4	1
Footings for domestic buildings and walls.	1	2.5	5	12	0.5	1
Toppings for two-course concrete paths.	1	1	2	24	0.5	1
	Note: All above mixes yield an amount of concrete slightly more than the quantity of coarse aggregate used in the mix.			Note: Sand and coarse aggregate figures are rounded to the nearest 1/2 m ³		

SWAN DRY MIXED PRODUCTS - JUST ADD WATER

SWAN GENERAL PURPOSE CONCRETE

Size	Cubic Metres Per Bag	Bags Per Cubic Metre
20kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³
30kg 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
20kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³
30kg bags	0.014 m ³ per bag 14 Litres per bag	70 bags per m ³

NOTE: Rapidset is not recommended for load bearing applications.

SWAN GREY MORTAR

Size	Standard Bricks Per Bag (10mm joint)	Bags per 1000 Standard Bricks
20kg bags	25 bricks per bag	40 bags
30kg bags	38 bricks per bag	26 bags

*NOTE: 1 standard brick measures 230mm L x 110mm W x 76mm H
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
20kg bags	25 bricks per bag	40 bags

DISCLAIMER: Swan Cement is not liable for any losses incurred by anyone using the "Ready Reckoner" as it is a guide only and usage can vary depending on brick type and other factors.

READY RECKONER

Your pocket guide to mixing cement



Contains new Swan Dry Mixed Product Information.

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INTERNATIONAL
QUALITY
MANAGEMENT
SYSTEM
ISO 9002 NATA CERTIFIED

For further technical assistance please ring 9411 1033 or visit our website at www.swancement.com.au

Swan Cement®

P O Box 38, Hamilton Hill, Western Australia 6963
TELEPHONE: (08) 9411 1111 FAX: (08) 9411 1160
ABN 50 008 673 470
Revised 02/2010

MORTAR



THE FOLLOWING CALCULATIONS ARE BASED ON APPROXIMATELY 0.6m³ DAMP BRICKLAYING SAND, WHICH WILL LAY APPROXIMATELY 1,000 STANDARD BRICKS
Clean, sharp well-graded sand, free from impurities should be used. The presence of a foreign matter will weaken the mortar and affect its setting qualities.
Approximately 1 cubic metre is required to lay 1,800 standard clay bricks.

(all mix ratios are calculated by volume) (Calculations based on 20kg Bags)

APPLICATION	BRICK TYPE	MORTAR COLOUR	CEMENT	LIME	SAND	BAGS PER 1,000 STANDARD CLAY BRICKS (Standard Brick Size 230L x 110W x 76H)	
M4 Mortar Classification							
<ul style="list-style-type: none"> 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 + 1.5 Marvelime®	
			1	0.25	3	11 Swan Grey + 1 Marvelime®	
	Clay (cored)	Concrete	Cream	1	0	3	11 Masonry Cement
				1	0.5	4.5	8 Brightonlite® + 1.5 Marvelime®
<ul style="list-style-type: none"> External above ground walls (1km to 10km from coast - excluding retaining or below ground walls) Walls in contact with fresh water 	Clay (solid)	Grey	1	0	3	9 50/50 Grey™	
			1	1	6	7 Swan Grey + 2.5 Marvelime®	
	Clay (cored)	Concrete	Cream	1	0	4	10 Masonry Cement
				1	0	3	9 50/50 Cream™
Reconstituted Lime	Federation White		1	1	6	7 Brightonlite® + 2.5 Marvelime® (with WHITE brickies Sand)	
			1	1	6	7 Brightonlite® + 2.5 Marvelime®	
M2 Mortar Classification							
<ul style="list-style-type: none"> External above ground walls (further than 10km from coastline - excluding retaining or below ground walls) Internal above ground walls (non-load bearing) 	Clay (cored)	Grey	1	0	3	9 50/50 Grey™	
			1	0	3	9 50/50 Cream™	
	Natural Limestone	Limestone		1	2	9	5 Brightonlite® + 3.5 Marvelime®

All mortars must be mixed and placed as per AS 3700 Masonry Structure.

RENDER



The following calculations are based on 1.2m³ damp plastering sand for each 1m³ of render

INTERNAL RENDERS	Mix Ratio (Volume)	Cement	Marvelime
FLOATING	C L S	Bags per 100m² @ 10mm	
20 kg Floatcem®	1 0 5	13	0
20 kg Masonry Cement	1 0 5	14	0
20 kg Swan Grey	1 1 7	10	4
20 kg 50/50 Grey™	1 0 3.5	14	0
GLASS FACED RENDER (DADO)	C L S	Bags per 100m² @ 10mm	
Base Coat Floatcem®	1 0 3	16	0
20kg Swan Grey	1 0.5 4.5	14	3
Finish Coat Floatcem®	1 0 1	24	0
20kg Swan Grey	1 0.5 1.5	22	4
FLOOR SCREEDING	C L S	Bags per 100m² @ 10mm	
20 kg Swan Grey	1 0 4	16	0
EXTERNAL RENDERS	Mix Ratio (Volume)	Cement	Marvelime
SAND FINISH BASE COAT (GREY)	C L S	Bags per 100m² @ 10mm	
20kg Floatcem®	1 0 4	14	0
20 kg Swan Grey	1 1 5	12	5
20 kg 50/50 Grey™	1 0 2.5	17	0
SAND FINISH TOP COAT (CREAM)	C L S	Bags per 100m² @ 5 mm	
20 kg Brightonlite®	1 1 6	6	2
20kg 50/50 Cream™	1 0 3	8	0
BAG WASH	C L S	Bags per 100m² @ 5 mm	
20 kg Brightonlite®	1 1 5	6	2
20 kg 50/50 Cream™	1 0 2.5	9	0

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.