

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) = 10x15x0.05 = 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	2.0	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	24	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:

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:

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 20mm 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.



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

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
20kg bags	28 bricks per bag	36 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	28 bricks per bag	36 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.

For further technical assistance please ring 1300 138 996

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 06/2017

READY RECKONER

Your pocket guide to mixing cement



Swan Cement[®]

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MORTAR



THE FOLLOWING QUANTITIES ARE BASED ON APPROXIMATELY 0.6m³ DAMP BRICKLAYING SAND, WHICH WILL LAY APPROXIMATELY 1,000 STANDARD BRICKS

APPLICATION	BRICK TYPE	MORTAR COLOUR	(all mix ratios are calculated by volume)			BAGS PER 1,000 STANDARD CLAY BRICKS (Standard Brick Size 230L x 110W x 76H)
			CEMENT	LIME	SAND	
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 Cement + 1.5 Marvelime [®]
				0.25	3	11 Swan [®] Grey Cement + 1 Marvelime [®]
	Clay (cored) Concrete	Cream	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						
<ul style="list-style-type: none"> 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) Concrete	Cream	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 brickies Sand)
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 (solid)	Grey	1	0	3	10 50/50 Grey [®]
				Clay (cored)	Cream	1
	Natural Limestone	Limestone	1			

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 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 100m² @ 10mm	
Base Coat Floatcem [®]	1	0	3	16	0
20kg Swan [®] Grey Cement	1	0.5	4.5	14	3
Finish Coat Floatcem [®]	1	0	1	26	0
20kg Swan [®] Grey Cement	1	0.5	1.5	22	4
FLOOR SCREEDING	C	L	S	Bags per 100m² @ 10mm	
20 kg Swan [®] Grey Cement	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	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 (CREAM)	C	L	S	Bags per 100m² @ 5 mm	
20 kg Brightonlite [®]	1	1	6	6	2
17.85kg 50/50 Cream [®]	1	0	3	9	0
BAG WASH	C	L	S	Bags per 100m² @ 5 mm	
20 kg Brightonlite [®]	1	1	5	6	2
17.85 kg 50/50 Cream [®]	1	0	2.5	10	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.

Additional air entraining agents are not recommended