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 is available in our Material Safety Data Sheets, on request.
Phone 1300-138-996

FIRST AID

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

Cockburn Creme (GP) Cement is available in

Bulk Tanker	Bulker Bags	Bags (20/40kg)

NEED TECHNICAL HELP?

For more information contact Technical Support on our
free-call-help-line 1300-138-996
or visit our website
www.cockburncement.com.au

SALES AND ORDERING:

Customer Service Centre:
(08) 9411 1166

COCKBURN CEMENT

ABN 50 008 673 470

Lot 242 Russell Road East,
Munster Western Australia 6166
PO Box 38, Hamilton Hill WA 6163
Telephone: (08) 9411 1111
Facsimile: (08) 9411 1120

Cockburn Creme (GP) Cement

PRODUCT INFORMATION

COCKBURN CEMENT

COCKBURN CREME (GP) CEMENT

COCKBURN CREME (GP) CEMENT

PRODUCT INFORMATION AND PROPERTIES

Australia's leading cream coloured cement is manufactured by Cockburn Cement here in Western Australia. Cockburn Creme GP cement is made especially for use in brickwork mortar and renders and other general uses. The colour you want comes in the cement you need to finish the job.

If you're using Cockburn Creme cement, you're mixing with the best.

Concrete Guide

Mix	Concrete Use
A	High strength concrete mixes: precast concrete and heavy duty floors.
B	General structural concrete: paths, driveways, garage floors.
C	Footings: for domestic brick walls, fence posts.

Parts By Volume			
Mix	Cement	Concrete Sand	Aggregate
A	1	1.5	3
B	1	2.5	4
C	1	2.5	5

Quantities To Make One Cubic Metres of Concrete ($1m^3$)			
Mix	Cement (20kg bags)	Concrete Sand (m^3 estimate)	Aggregate (m^3 estimate)
A	18	0.4	0.8
B	14	0.5	0.8
C	12	0.4	0.9

Render Guide - Cement & Lime

Use	Substrate	Mixed Ratios By Volume			Cement 20kg Bags	Hylime 20kg Bags
		Cement	Hylime	Plasterers Sand		
Float / base coat	Cored Clay Bricks	1	1	7	10	4
	Calcium Silicate	1	1.5	6	10	6
	Concrete Blocks	1	1	6	11	4
Sand finish base coat		1	1	4.5	13	5
Sand finish top coat		1	1	5	12	5

Render Notes:
Approximately $1.2m^3$ of damp sand is required for $1m^3$ of render.
Estimate based on $1m^3$ of render covering $100m^2$ at 10mm thickness.

Chemical Properties

Parameter	CCL Typical	AS3792 Limits	Test Method
SiO_2	22.0%		XRF
Al_2O_3	4.5%		XRF
Fe_2O_3	0.5%		XRF
CaO	65.2%		XRF
MgO	2.8%		XRF
SO_3	2.4%	3.5% Max	XRF
LOI	1.7%		AS2350.2
Chloride	0.01%		ASTM C114
Na_2O Equivalent	0.3%		ASTM C114

General Notes:

- Use only recommended concrete, mortar or plastering sands free from clay and organic contamination.
- Use a 50/50 blended 20mm + 10mm stone for concrete aggregate.
- Keep water content to a 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 manufacturer instructions. Hylime contains an air-entraining agent, additional air entraining agent is not required.
- Quantities estimated are typical industry usage and will vary according to individual use patterns.
- For additional DIY information please refer to **www.concrete.net.au**

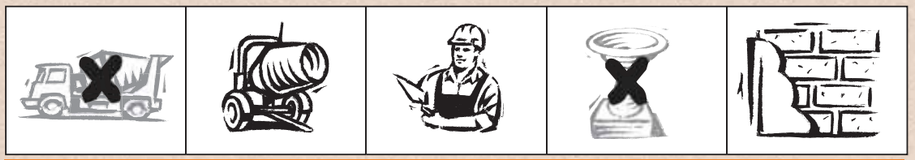
Mortar Guide

Mix	Masonry Exposure Environment
M4	Retaining Walls. Walls 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. Walls below the damp-proof course or ground level or in contact with aggressive soils.
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.
M2	Internal walls subject to wetting and drying of a non-saline character. External above ground walls greater than 10km of a surf coastline or greater than 1km of a non-surf coastline e.g., Estuary and coastal river zones. Interior walls not subject to wetting and drying.

Mix Design - Parts by Volume			
Mix	Cement	Hylime	Brickies Sand
M4	1	0.50	4.5
M4 alternative mix	1	0.25	3
M3	1	1	6
M2	1	2	9

Estimated Quantities To Place 1000 standard bricks (230 L x 110 W x 76 H)			
Mix	Cement (20kg bags)	Hylime (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

Please refer to AS3700 (2001) "Masonry Structures" for more detailed information.
For other masonry types contact Technical Enquiries 1300 138 996.



Premix	Site Mix	Brickwork	Moulded Products	Renders

Chemical Properties

Parameter	CCL Typical	AS3972-1997 Limits	Test Method
Fineness Index	375 m2/kg	n/a	AS2350.8
Normal Consistency	28.4%	n/a	AS2350.3
Initial Set Time	2:00 hour:min	0:45 hour:min Min	AS2350.4
Final Set Time	3:15 hour:min	10:00 hour:min Max	AS2350.4
Soundness	1mm	5mm	AS2350.5
ISOCEN Mortar Bar Strengths			
3 day	38 MPa	n/a	AS2350.11
7 day	47 MPa	25 MPa Min	AS2350.11
28 day	60 MPa	40 MPa Min	AS2350.11
Flexural Strength by Bond Wrench (1)	**CCL Typical**		**Test Method**
M2 - 1:2:9 mix - 28 day	0.3 MPa		AS3700
M3 - 1:1:6 mix - 28 day	0.5 MPa		AS3700
M4 - 1:0.5:4.5 mix - 28 day	0.6 MPa		AS3700

Test mortars for flexural strength determination were batched in a 3 cubic foot mixer with commercially available brickies sand to give an initial flow of 125% to 135% and air content 10% to 14%. Bricks were 16 core Midland Brick Cream. Tested to AS1226 initial rate of absorption $1.1kg/m^2/min$ and characteristic compressive strength of 45 MPa.

Please refer to AS3700 "Masonry Structures" for more detailed information.