

# Safety and Ordering

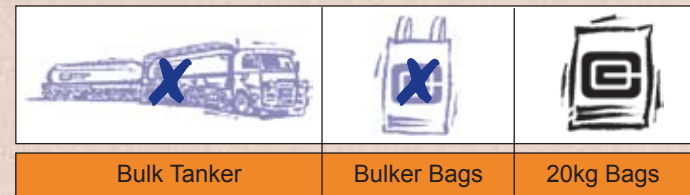
## SAFETY

Avoid direct skin contact with both wet and dry *Hylime*. Avoid breathing Hy-lime dust by wearing a P1 or P2 dust mask suitable for airborne dust. Wear appropriate protective clothing and footwear.

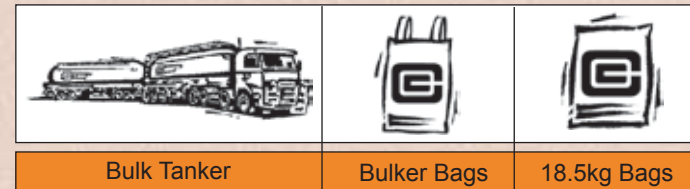
Additional information is available in our Material Safety Data Sheets, on request. Phone 1300-138-996.



*Hylime* is available in



Industrial Hydrated Lime is available in



## FIRST AID

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



## NEED TECHNICAL HELP?

For more information call Technical Support on our help-line 1300-138-996 or visit our website [www.cockburncement.com.au](http://www.cockburncement.com.au)

## SALES AND ORDERING:

Customer Service Centre:  
(08) 9411 1166

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# Cockburn Hylime®



PRODUCT INFORMATION



INDUSTRIAL HYDRATED LIME

COCKBURN HYLIME®



# PRODUCT INFORMATION AND PROPERTIES

Cockburn *Hylime* is derived from high quality quicklime, via a grinding and slaking process, at Cockburn's dedicated hydrated lime plant. It is produced to conform fully with the requirements of AS 1672 'Building Limes'.

*Hylime* incorporates a carefully measured amount of air-entraining agent to further enhance its ability to impart excellent water retention and plasticity to mortars. Across the normal range of bricks, sands and climate, when using *Hylime* with Cockburn's cement products, no other workability aids are necessary. *Hylime* will impart a self healing characteristic to mortars known as autogenous healing. This characteristic is due to the carbonation process in the setting and hardening of lime. Fine cracks that can appear in mortar will, if lime is incorporated, expose unreacted calcium hydroxide to the carbon dioxide in the air, thereby allowing reformation of calcium carbonate crystals which 'grow' into the cracks. This self healing of lime based mortars has long been recognised as important. Other workability agents for mortar do not impart this quality.

Cockburn *Hylime* will also enhance the durability of mortars as the high water retention prevents excessive absorption of water from the mortar into masonry units. The longer the water is retained in mortar, the better the cement will cure, thus enhancing the ultimate strength development of the mortar. Bond strength is also enhanced by the high plasticity imparted by *Hylime*. This enables the mortar to be squeezed into the cores and pores in each masonry unit thus improving both bond and the seal against the ravages of the weather.



*Hylime* is not to be used for making concrete.  
*Hylime* is not to be used for set coats.

## Mortar Guide

Mix	Masonry Exposure Environment
M4	Retaining walls. Walls located 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.
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. Internal walls subject to wetting and drying of a non-saline character.
M2	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	<i>Hylime</i>	Brickies Sand
M4	1	0.5	4.5
M4 alternative mix	1	0.25	3
M3	1	1	6
M2	1	2	9

## Estimated Quantities To Place 1000 std bricks (230L x 110W x 76H)

Mix	Cement (20kg Bags)	<i>Hylime</i> (20kg bags)	Brickies Sand (m <sup>3</sup> 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

### Notes:

- Use only recommended brickies sand free from organic contamination.
- Use a standard sized vessel e.g., a bucket, to measure all materials.
- Any admixtures used should only be added according to the manufacturers instructions.
- Hylime* contains an air-entraining agent, additional air entraining agents are not required.
- Quantities are typical industry usage and will vary according to brick type and individual waste patterns.
- Please refer to AS3700 "Masonry Structures" for more detailed information.

## APPLICATIONS

Although formulated for use in masonry mortar, Cockburn *Hylime* is also ideally suited for plastering applications. Its ability to impart excellent water retention and plasticity to correctly proportioned renders makes it an automatic choice for plastering. Typical applications are given below.

### Render Guide - Cement & Lime

Use Internal Walls	Substrate	Mixed Ratios By Volume			Cement 20kg Bags	<i>Hylime</i> 20kg Bags
		Cement	<i>Hylime</i>	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	5*	12	5
Sand finish top coat		1	1	6*	11	4
Cement Dado		use Plasterers Dark				

\* For external application sand volumes should be reduced to 4.5 and 5 respectively.

- Use only recommended plastering sands free from clay and organic contamination.
- Use a standard sized vessel e.g., a bucket to measure all materials.
- Hylime* contains an air entraining agent, therefore additional air entraining agent not required.
- Quantities estimated are typical industry usage and will vary according to individual use patterns.
- Cockburn *Hylime* is not a plaster finishing lime and should not be used in set coats.
- For additional DIY information please refer to [www.cockburncement.com.au](http://www.cockburncement.com.au)

Although *Hylime* is also suitable for many other lime applications, Industrial Hydrated Lime would probably be better suited for non-building applications.

## INDUSTRIAL HYDRATED LIME

Industrial Hydrated Lime (IHL) is, like *Hylime*, produced by the addition of water to quicklime (in controlled amounts) to form a fine white powder. However, it differs in that it does not contain any air-entraining agent.

As such it is ideally suited for industrial applications such as a pH modifier in mineral processing and environmental control. It is also suitable for many other applications including:

- Removing oil/grease from concrete surfaces
- White wash
- Soil stabilisation
- Acid and chemical neutralisation
- Plant fertiliser/compost additive
- Animal sanitation
- pH modification of soils

### Flowchart of the Lime Cycle

