

Hydrated Lime

ICL's supplied hydrated lime possesses a substantial amount of free calcium hydroxide, which meets the requirements set by the Australian standard AS 1672.1: Limes and limestones - Lime for building. This hydrated lime is an ideal addition to cement/sand mortars and renders as it enhances their workability, plasticity, and longevity.

APPLICATIONS

Hydrated lime can be used in following applications.

- Mortars
- Plasters
- Renders
- Asphalt
- Road Soil stabilisation
- Paving
- Sewerage treatment
- Water treatment

TYPICAL PROPERTIES

Chemical Composition		
Oxide	AS1672.1-1997	Typical analysis (%)
SiO ₂	No requirement	1.8
Al ₂ O ₃	No requirement	0.5
Fe ₂ O ₃	No requirement	0.6
CaO	No requirement	72
MgO	No requirement	1.0
Loss on Ignition	No requirement	24.0
CO ₂	<5%	2.5

PHYSICAL PROPERTIES

Fineness	Typical fineness is 0.1% retained on a 75 µm sieve and less than 0.05% on as 250 µm sieve
Specific Gravity (kg/m ³)	2.2-2.3
Bulk Density (kg/m ³)	400-600

AVAILABL LIME INDEX

ICL's supplied hydrated lime adheres to the standard specification AS 1672.1, ensuring an available lime index within the range of 85-90%, typically expressed as calcium hydroxide (Ca(OH)₂).

COLOUR

Hydrated lime is white in colour.

MORTAR AND RENDER WITH HYDRATED LIME

MIX PROPORTIONS (BY VOLUME) FOR MORTAR/RENDER

The table below shows the mix proportions that can be used to produced mortar/render mixes. Hydrated lime can be used to get better workability. (Note: This information is a guide only, specific advice should be searched for the special projects)

APPLICATION	MORTAR TYPE (AS 3700)	CEMENT	HYDRATED LIME	SAND
General Use (Additional workability)	M3	1	1	6

HANDLING AND STORAGE

Hydrated lime can be stored up to twelve months provided it is stored in a place dry place which is protected from ingress of moisture. Storage areas for bagged lime must be covered to prevent ingress of moisture.

SAFETY INFORMATION

For safety information refer to the safety data sheet (SDS) for Hydrated Lime. SDS is available on request.

RELEVANT AUSTRALIAN STANDARD

AS 1672.1 Limes and limestones -Lime for building. Hydrated Lime

