

# Aalborg White® Cement



## General

**AALBORG WHITE®** Portland Cement is manufactured in Malaysia in a modern State of the Art facility to the highest European Standards. The **AALBORG WHITE®** Portland Cement produced is characterised by its superior whiteness, uniform composition and performance. It is suitable in any application that requires premium whiteness and strength.

## Use

**AALBORG WHITE®** cement gives you the opportunity to choose among all the colours of the spectrum when producing your concrete or dry mix.

- White concrete is obtained by mixing **AALBORG WHITE®** with light coloured sands and white aggregates like white granite or white marble
- Coloured concrete is obtained by mixing with pigments

**AALBORG WHITE®** is often used in white or coloured dry mix for facings. **AALBORG WHITE®** is also perfect in concrete for panels, balconies, cornices, ornaments, paving stones and in light pointing mortar.

The light-reflecting properties of **AALBORG WHITE®** provide traffic with additional safety when you produce kerb, road markings, medium barriers, tunnel linings and tunnel ramps

## Product

**AALBORG WHITE®** cement is white Portland Cement characterized by its high whiteness exceeding 90 based on Hunter L scale and possesses high standard (28 days) strength

## Management Systems

**AALBORG WHITE®** cement operates under an Independently certified Integrated management system which complies with the requirements of ISO 9001, for Quality and to ISO 14001 for Environment.

## Test Standards

**AALBORG WHITE®** cement is tested to ensure that it conforms to the requirements of the following Standards -  
AS 3972 type GP, MS888-2011, EN197-1, CEM | 52.5N.

## **AALBORG WHITE®**

is available in  
20kg Bags  
1200kg Bulk Bags  
Bulk Delivery

## Emergency Contacts

Australia Poisons Information Centre 13 11 26

New Zealand Poisons Information Service 0800  
POISON (0800 764 766)

## Aalborg Portland Australia Pty Ltd

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## AALBORG WHITE® CEMENT

### Product Data

AALBORG WHITE®	
Type	CEM   52.5N
Strength Class	52.5N
Fe <sub>2</sub> O <sub>3</sub>	0.2%
SO <sub>3</sub>	3.3%
Chloride	0.01%
MgO	1.7%
Insoluble Residue	0.2%
Fineness (Blaine)	3980cm <sup>2</sup> /g
La Chatelier Expansion	2mm
Bulk Density	3070kg/m <sup>3</sup>
Absolute Density	1050kg/m <sup>3</sup>
3 day strength	30 - 40 MPa
7 day strength	40 - 50 MPa
28 day strength	55 - 65 MPa
Initial Set Times	60 - 120 mins
Final Set Times	120 - 180 mins
Whiteness (Hunter)	91.5

### Mix Designs - From Cement to Concrete

#### Water

Use clean water

#### Aggregates

Aggregates have an effect on the appearance of the finished concrete surface. The aggregates should therefore be selected, stored and used in an appropriate way so as to meet the aesthetic demands to the finished concrete surface. The mix of the aggregates should be kept as constant as possible in order to avoid differences in shade of the finished concrete surface.

#### Admixes

All admixes should be colourless to avoid discoloration of the white or light concrete. Air entraining agents are known to reduce the tendency of efflorescence. Such Admixtures that act upon the setting and hardening should also be used in accordance with usual guidelines. To ensure the requested white colour it is recommended always to make trial mixes.

### Constructions and castings

The constructions should be of a design that is suitable for repelling pollution from percolating water and dirt. Particular care must be exercised in the choice of basic materials, casting materials, mixing and casting processes, curing and finishing.

### Mix Designs - From Cement to Mortar

AALBORG WHITE® cement is often used as a binder in various types of mortar and together with lime in a lime-cement mortar. Tools used for mixing the mortar should be stainless in order to preserve the white colour.

#### MIX DESIGN

The following table provides recommended mortar mix designs for various exposure conditions. Refer to AS 3700 (Masonry structures) for more detailed instructions.

Application	Mortar Class (AS 3700)	Cement	Sand	Hydrated Lime
Mortar - General use	M3	1	6	1
Mortar - Aggressive Environments	M4	1	4.5	0.5
Rendering - General	NA	1	4	0.5

#### Storage

It is recommended that AALBORG WHITE® cement older than 6 months is not used unless examined and/or tested prior to use.

AALBORG WHITE® cement in bags should be kept inside on pallets with unbroken plastic wrapping until it is to be used. Care should be taken to avoid moisture getting into contact with the cement bags from beneath the pallet. The pallets should be stored in a dry environment at as low a temperature as possible to reduce the rate of moisture uptake.

Bulk cement should be stored in air-tight silos, using dried air to transport the cement.

If the cement contains lumps it should not be used unless tested, as the strength cannot be guaranteed.

#### Service

Our team is here for you, should you require assistance in respect to the use of our cement. For further information please visit our homepage at [www.aalborgportland.com.au](http://www.aalborgportland.com.au)

#### Health and Safety

Contact with cement mixed with water or body fluids (e.g. sweat or eye fluid) or with concrete or mortar should be avoided as it may cause irritation, dermatitis or burns. If such contact occurs, the affected area should be washed without delay with plenty of clean water.

In case of eye contact rinse immediately with clean water and seek medical advice.

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