



# BRIGHTONLITE® CEMENT

## PRODUCT DESCRIPTION

Adelaide Brighton Cement produces Brightonlite® Cement conforming to Australian Standard AS 3972.

Brightonlite® is a special purpose off white in colour, Type HE Cement.

## SUPPLY

Brightonlite® Cement is available in 20 kg multi-walled paper bags, in bulk bags and bulk from our Angaston Works and Customer Service Centres in regional areas. Brightonlite® should be specified by name.

## SPECIFICATION

Brightonlite® Cement exceeds the minimum specification given in AS 3972, Type HE.

All products are manufactured under a third party certified manufacturing and supply quality assurance system to AS/NZS ISO 9001 (NCS Certification No 6041).

Brightonlite® Cement is produced from Portland Cement Clinker and Gypsum and may contain up to 5% mineral additions.

## APPLICATIONS

Brightonlite® Cement is versatile in its use and has numerous applications. For example, in-situ concrete, precast concrete, concrete masonry, paving blocks, concrete tiles, garden furniture, glass reinforced cement (GRC), mortar and wherever a light coloured finish is required.

Off white cements are often used for architectural purposes. Relatively high cement contents are normal in this application; the minimum recommended cement content is 355 kg/m<sup>3</sup> of concrete with a maximum water/cement ratio of 0.55 for durability and to achieve colour density.

Brightonlite® has a high C<sub>3</sub>A content and it should not be used in any situation where sulfate attack is likely.

## HANDLING AND STORAGE

Transportation may be in bulk road or in paper bags. Brightonlite® Cement can be stored in concrete or steel silos for up to six (6) months or in paper bags for three (3) months. Protection against ingress of moisture must be observed throughout the handling and storage.

## SAFETY INFORMATION

For safety information refer to the Safety Data Sheet for Brightonlite® Cement.

## TYPICAL PROPERTIES

### Physical Properties

Test	Typical Value	AS 3972 Requirement
Fineness Index (m <sup>2</sup> /kg) AS 2350.8		
	420 - 475	
Setting Time (hr:min) AS 2350.4-1987		
Initial	1:30	min 00:45
Final	2:30	max 6:00
Soundness (mm) AS 2350.5-1987		
	1	max 5
Compressive Strengths ISO-CEN mortar bars (MPa) AS 2350.11-1997		
1 Day	16 - 18	-
3 Days	39 - 41	20
7 Days	49 - 51	30
28 Days	65 - 67	-

### Chemical Properties

Test	Units	Typical Values
Sulphur Trioxide	%	2.3
Loss on Ignition	%	2.9
Chloride	%	0.002
Equivalent Alkalies	%	0.3
Hexavalent Chromium	mg/kg	<2
Crystalline Silica	%	<1
Components		
Portland Clinker	%	85 - 96
Gypsum	%	3 - 8
Mineral Addition	%	up to 7.5

### Typical Concrete Properties

Test	Units	Typical Properties	
Cement Content	kg/m <sup>3</sup>	300	400
W/C ratio	-	0.70	0.50
Slump	mm	80	85
Bleed	%	5.8	-
Initial Set	hr:min	6:00	5:00
Final Set	hr:min	8:30	6:15
Compressive Strength			
1 Day	MPa	9.5	23.0
7 Days	MPa	23.0	38.0
28 Days	MPa	31.5	47.0



# BRIGHTONLITE<sup>®</sup> CEMENT

## CONTACT POINTS

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