



HIGH EARLY STRENGTH CEMENT

PRODUCT DESCRIPTION

Adelaide Brighton Cement produces High Early Strength Cement conforming to the Type HE specification in AS 3972.

This product is manufactured at our Bikenhead Works in South Australia for use in the precast, construction and building industry as well as in domestic applications.

SUPPLY

High Early Strength Cement is available in bulk, bulk bags and in 20 kg multi-walled paper bags from the Angaston Works and Customer Service Centres in regional areas. Paper bags are palletised and stretch wrapped.

SPECIFICATION

High Early Strength Cement exceeds the minimum specification given in AS 3972.

All products are manufactured under a third party certified manufacturing and supply quality assurance system to ISO 9001 (BSI Certification No FS 604665).

High Early Strength Cement is produced from Portland Cement Clinker and gypsum and may contain up to 7.5% mineral additions.

APPLICATIONS

High Early Strength Cement lends itself to applications where rapid early strength development is desired, for example, when formwork is to be removed early or where sufficient strength for further construction is required quickly.

The overall heat generation and rate of heat evolution will be greater than that of general purpose cements, therefore caution should be taken when specifying High Early Strength Cement for use in large structural sections or in mass construction.

The use of this cement in cold weather may prove beneficial due to its rapid hardening properties.

HANDLING AND STORAGE

Transportation may be in bulk road or in paper bags. High Early Strength Cement can be stored in concrete or steel silos and paper bags for up to six months provided protection against ingress of moisture is observed throughout the storage of the product.

SAFETY INFORMATION

For safety information refer to the Safety Data Sheet for High Early Strength Cement.

TYPICAL PROPERTIES

Typical Physical Properties

Test	Typical Values	AS 3972 Requirement
Fineness Index (m ² /kg) AS 2350.8		
	400 - 470	
Setting Time (hr:min) AS 2350.4		
Initial	1:40	Min 0:45
Final	3:00	Max 6:00
Soundness (mm) AS 2350.5		
	1	max 5
Compressive Strengths ISO-CEN mortar bars (MPa) AS 2350.11		
3 Days	36	25
7 Days	49	40
28 Days	61	-

Typical Chemical Properties

Test	Units	Max AS 3972	Typical Values
Sulphur Trioxide	%	3.5	2.7
Loss on Ignition	%	-	3.8
Chloride	%	0.1	0.03
Equivalent Alkalies	%	-	0.5
Hexavalent Chrome	mg/kg	-	Trace
Crystalline Silica	%	-	Trace
Components			
Portland Clinker	%	-	87 - 94
Gypsum	%	-	5 - 7
Mineral Addition	%	7.5	Up to 7.5

CONTACT POINTS

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