



GENERAL PURPOSE CEMENT

PRODUCT DESCRIPTION

Adelaide Brighton Cement produces General Purpose Cement, Type GP, conforming to Australian Standard AS 3972.

General Purpose Cement is manufactured to exacting standards at our Birkenhead works in Adelaide, South Australia for use in the construction and building industry, and domestic applications.

SUPPLY

General Purpose Cement is available in bulk, bulk bags, and 20 kg multi-walled paper bags from the Birkenhead works and customer service centres in regional areas. Paper bags are palletised and stretch wrapped.

SPECIFICATION

General Purpose Cement exceeds the minimum specification for Type GP cement given in AS 3972.

General Purpose Cement is manufactured under a third party certified manufacturing and supply quality assurance system to ISO 9001 (BSI Certification No FS 604665).

General Purpose Cement is produced from Portland cement clinker, gypsum, and may contain up to 7.5% mineral addition.

APPLICATIONS

General Purpose Cement is ideal for use in structural concrete, mortars, renders, grouts, and cement based products. It can also be used as general binder in applications such as soil stabilisation.

Supplementary cementitious materials (SCM's):

General Purpose Cement is compatible with fly ash, amorphous silica, and ground granulated blast furnace slag conforming to the relevant sections of AS 3582.

Admixtures for concrete:

General Purpose Cement is compatible with concrete admixtures complying with AS 1478.

TYPICAL PROPERTIES

General Purpose Cement as its name suggests, is the traditional cement used in industry. It is best utilised when the special properties of low heat of hydration (temperature rise), high sulfate resistance, or high early strength are not required.

Typical physical properties

Test	General Purpose Cement	AS 3972 requirement
Fineness index (m²/kg) AS 2350.8		
	370 - 430	
Setting time (hr:min) AS 2350.4		
Initial	1:45	Min 0:45
Final	3:00	Max 6:00
Soundness (mm) AS 2350.5		
	<1	Max 5
Compressive strength ISO-CEN mortar bars (MPa) AS 2350.11		
3 day	31	-
7 day	42	Min 35
28 day	60	Min 45

Typical chemical properties

Test	Units	Max AS 3972	Typical values
Sulphur trioxide	%	3.5	2.8
Loss on ignition	%	-	3.2 – 4.0
Chloride	%	0.1	0.05
Equivalent alkalis	%	-	0.5
Hexavalent chromium	mg/kg	-	Trace
Crystalline silica	%	-	Trace
Components:			
Portland clinker	%	-	85 – 93
Gypsum	%	-	5 - 7
Mineral addition	%	7.5	up to 7.5

HANDLING AND STORAGE

Transportation may be in bulk road or rail tankers, or in paper bags.

Manual handling of bag products without due care and attention may result in personal injury. Unless you have been trained in manual handling methods, it is suggested that you share the load with another person.

General Purpose Cement can be stored in concrete or steel silos, and bags for up to six months provided protection against ingress of moisture is observed throughout the storage of the product. To achieve optimum results, ideally use within 3 months of purchase.

Ingress of moisture can occur due to rain, liquid spillage (on or around the product) or a high humidity climate. Such exposure will degrade the performance of the product.

Do not use if the product has become hard or lumpy.



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SAFETY INFORMATION

For safety information refer to the safety datasheet for General Purpose Cement.

CONTACT POINTS

For further information contact the Sales and Marketing department at:

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- Assess and control any risks associated with the information or product; and
- Obtain professional advice in relation to the use of the information or product.

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