Product datasheet

ADBRI EVOCEM™

PRODUCT DESCRIPTION

Adbri EvoCem™ is a Type GL cement conforming to Australian Standard AS 3972-2010 as a general purpose limestone cement. EvoCem™ reduces the embodied carbon of cement by a minimum of 8% compared to Adbri's Birkenhead Type GP cement, as verified in Adbri's Cement EPD.

Evocem™ is manufactured to exacting standards at our Birkenhead works in Adelaide, South Australia. Adbri EvoCem™ is suitable for use in the construction and building industry, and domestic applications.

SUPPLY

Evocem™ is available in bulk from the Birkenhead works.

SPECIFICATION

Adbri Evocem™ exceeds the minimum specification for Type GL cement given in AS 3972.

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

Evocem™ is produced from Portland cement clinker, gypsum, limestone, and may contain between 8 % and 20 % limestone as a mineral addition.

APPLICATIONS

Evocem™ is ideal as a Type GP cement alternative in structural and general concrete applications, as a general binder for soil stabilization, and in cement based products.

Supplementary cementitious materials (SCM's):

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

Admixtures for concrete:

Evocem™ is compatible with concrete admixtures complying with AS 1478.

TYPICAL PROPERTIES

Adbri Evocem™ typically has lower associated carbon emissions from its manufacture compared to a Type GP cement, while maintaining similar performance properties to Type GP cement.

Typical physical properties

Test	Typical values	AS 3972 requirements
Fineness index (m^2/kg) AS 2350.8		
	380 - 450	-
Setting time (min) AS 2350.4		
Initial	126	Min 45
Final	180	Max 600
Soundness (mm) AS 2350.5		
	0 - 1	Max 5
Compressive strength ISO-CEN mortar bars (MPa) AS 2350.11		
3-day	29 - 45	-
7-day	39 - 55	Min 20
28-day	53 - 65	Min 35

Typical chemical properties

Test	Units	Typical values	AS 3972 Max
Sulphur trioxide	%	2.2 – 3.0	3.5
Loss on ignition	%	5 – 8	-
Chloride	%	0.01 – 0.06	0.1
Equivalent alkalis	%	0.37 – 0.49	-
Hexavalent chromium	mg/kg	Trace	-
Crystalline silica	%	Trace	-
Components:			
Portland clinker	%	73 – 87	-
Gypsum	%	5 – 7	-
Mineral addition	%	8 – 20	20

HANDLING AND STORAGE

Transportation may be in bulk road or rail tankers.

EvoCem™ can be stored in concrete or steel silos, and bags for up to six months; provided protection against ingress of moisture is not 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.

SAFETY INFORMATION

For safety information refer to the safety datasheet for Adbri Evocem™.

CONTACT POINTS

For further information contact the Sales and Marketing department at:

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