PRODUCT DATA SHEET

SNOWCRETE (CEM II)

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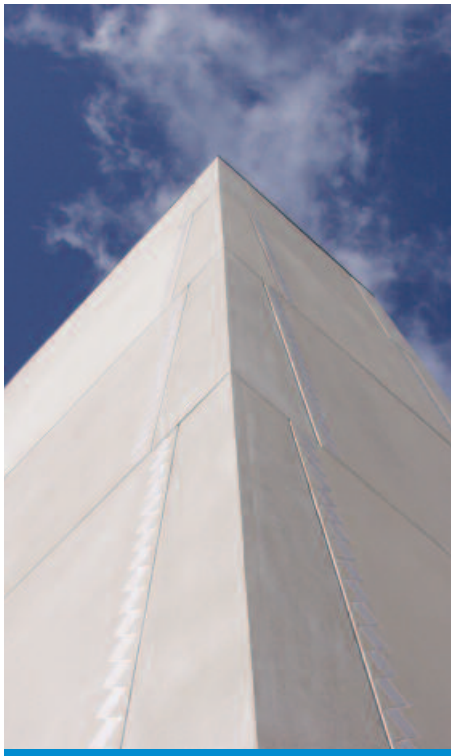

BULK PORTLAND-LIMESTONE CEMENT (CEM II/A-L 52,5N)

For architectural uses, providing attractive and durable concrete, rendering and mortar. Uses include cast stone, architectural precast concrete, paving slabs, street furniture, terrazzo.

Snowcrete is a white Portland cement which complies with BS EN 197-1 CEM II/A-L 52,5N.

Snowcrete is a quality assured cement with independent third party certification and carries a CE mark.

Applications

To provide attractive and durable visual concrete, renderings and mortars.

A wide variety of white and light coloured finishes can be produced with selected white or light coloured aggregates. Coloured finishes with a bright and clean appearance can be produced with selected coloured aggregates or with pigments.

Typical applications of Snowcrete are:

- Cast stone.
- Structural in-situ and precast concrete.
- Cladding panels.
- Precast paving slabs and blocks.
- Road markings, kerbs, bollards.
- Street furniture.
- Terrazzo.
- Floor and wall tiles.
- Swimming pool finishes.
- Renders.
- Pointing mortars.
- Tile grouts.

Properties

- White colour.
- Does not contain any white pigments or additives.
- Similar setting time to Bulk Portland Cement.
- Higher early and later strengths than Portland cement CEM I 42,5.
- Naturally low in Chromium (VI) (below 2ppm).

Availability

Snowcrete is available in bulk tankers throughout the United Kingdom.

Conditions of Use

- Concrete, mortars and grouts containing Snowcrete must be specified and used correctly for best performance.
- The cement content must be correct and the water:cement ratio as low as possible consistent with satisfactory placing, thorough compaction and effective curing.

- The final finish quality of this material will depend upon the operative having the required skills and a familiarisation with the materials and its application methods.
- Lafarge Cement UK cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- Snowcrete is manufactured from natural products, and slight shade variations may occur. Snowcrete will also have shade variations from differing manufacturing centres.

Technical Support

Further information and advice on this product and the full range of Lafarge Cement products can be obtained through the contacts listed below.

Health and Safety

Contact between cement powder and body fluids (eg, sweat and eye fluids) may cause irritation, dermatitis or burns. Cement is classified as an irritant under the Chemicals (Hazard Information and Packaging) Regulations.

For further information, including control of soluble hexavalent chromium, refer to the appropriate Lafarge Cement Health and Safety Information Sheets (Portland cements).

Typical properties (For guidance only, not to be used for specification purposes)		
Surface area	(m^2/kg)	480 to 540
Setting time – initial	(minutes)	140 to 190
BS EN 196-1 Mortar compressive strength		
– 2 day	(MPa)	28 to 35
– 28 day	(MPa)	55 to 60
Apparent particle density	(kg/m^3)	3000 to 3080
Bulk density	(kg/m^3)	
	Aerated	1000 to 1300
	Settled	1300 to 1450
Colour	L value	92 to 96
Sulfate	SO_3 (%)	2.4 to 2.8
Chloride	Cl (%)	Less than 0.05
Alkali	Eq Na_2O (%)	Less than 0.40
Tricalcium Silicate	C_3S (%)	50 to 60
Dicalcium Silicate	C_2S (%)	15 to 30
Tricalcium Aluminate	C_3A (%)	7.5 to 9.0
Tetracalcium Aluminoferrite	C_4AF (%)	Below 0.75
Target limestone content	%	12 to 15

White Portland-limestone cement is predominantly compounds of calcium silicate and calcium aluminate with a small proportion of gypsum. It is produced by burning or sintering, at a temperature in excess of 1400ºC, a finely ground mixture of selected raw materials which contain predominantly calcium carbonate, aluminium oxide and silica. The cooled clinker formed is ground under controlled conditions with the addition of typically 5% gypsum and up to 20% limestone.

For further information

Technical helpline
Tel: 0845 812 6232
E-mail: info@uk.lafarge.com

Customer services
Tel: 0845 812 6300
E-mail: customerservice@uk.lafarge.com

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