

SNOWCRETE (CEM II)



bringing materials to *life*™



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-limestone 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.
- Similar early and later strength to Portland cement.
- Naturally low in Chromium (VI) (below 2 ppm).

Availability

Snowcrete is available in 25 kg bags throughout the United Kingdom. Snowcrete is also available in bulk tankers.

Storage

This product should be stored in unopened bags clear of the ground in cool dry conditions and should be stacked in a safe and stable manner.

Conditions of Use

- Snowcrete may be used in the range of traditional nominal mixes as for traditional Portland Cement.
- To achieve optimum performance from Snowcrete in concrete or other products, it is essential that it is correctly specified and used.
- Recommended mixes are given in the Lafarge Cement Builder's Guide, available from the contacts overleaf.
- As with other cements in building work, there is no substitute for good practice and workmanship. It is essential to use the correct materials, proportion and mix the materials properly, add the correct amount of water, compact, cure and protect as appropriate.
- Normal hot and cold weather practice should also be followed.
- The final finish quality of this material will depend upon the operative having the required skills and a familiarity with the material and its application methods.
- Lafarge Cement UK cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- Manual handling should comply with The Manual Handling Operations Regulations 1992.
- Snowcrete is manufactured from natural products, and slight shade variations may occur.

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. Alternatively, step-by-step application videos are available from us on the internet, by scanning the QR code below using your Smartphone or by downloading our iPhone app from the App Store.

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).



The information in this datasheet is accurate at the time of printing, but Lafarge Cement UK reserve the right to amend details as part of their product development programme.

| Typical properties (for guidance only) | | | For further information |
|---|--------------------------|----------------|---|
| Surface area | (m ² /kg) | 480 to 540 | Technical helpline Tel: 0845 812 6232 E-mail: info@uk.lafarge.com Customer services Tel: 0845 812 6300 E-mail: customerservice@uk.lafarge.com iPhone App www.lafarge.co.uk/iphone |
| 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 | | | |
| | 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 ₂ O (%) | Less than 0.40 | |
| Tricalcium Silicate | C ₃ S (%) | 50 to 60 | |
| Dicalcium Silicate | C ₂ S (%) | 15 to 30 | |
| Tricalcium Aluminate | C ₃ A (%) | 7.5 to 9.0 | |
| Tetracalcium Aluminoferrite | C ₄ AF (%) | 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 1400°C, 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.

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