

ULTIMATE DATA

SULFACRETE

High performance Cement (CEM II/B-V 32,5R) **Product Data Sheet**

A Portland-fly ash cement with a high sulfate resistance and a moderate heat of hydration.

Particularly suitable for:

- Reducing damage to concrete, mortar and grout exposed to sulfate attack and minimising the risk of alkali silica reaction.
- Reducing the thermally-induced stresses in large pours.
- Concrete exposed to the marine environment.

Sulfacrete is a low-alkali Portland-fly ash cement that conforms to the requirements of BS EN 197-1 CEM II/B-V 32,5R. This cement is classified by BS 8500 with a +SR suffix, signifying enhanced sulfate resistance.

Sulfacrete is a quality-assured cement with independent third-party certification and carries a CE Mark.

APPLICATIONS

Use to:

- Reduce damage to concrete, mortar and grout exposed to sulfate attack including:
 - manholes
 - effluent treatment plants.
- Minimise the risk of alkali-silica reaction.
- A moderately low-heat cement to reduce the thermally-induced stresses in large pours.
- Marine concrete.



PROPERTIES

- Portland-fly ash cement with special sulfate-resisting properties for use in all sulfate conditions (except DC-4m), as defined in Building Research Establishment Special Digest 1: 2005 and BS 8500: *Concrete – Complementary British Standard to BS EN 206-1*.
- Equivalent sulfate resistance to BS 4027 SRPC.
- Reduced alkali (declared mean equivalent Na_2O not exceeding 0.6%).
- Reduced water demand.
- Slower early-age strength development than Portland cement (CEM I).
- Better resistance to chloride ingress than Portland cement (CEM I).

AVAILABILITY

Sulfacrete is available in 25 kg bags throughout the United Kingdom.

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. Information on the maximum storage period can be found on the bag.

CONDITIONS OF USE

- Sulfacrete may be used in the range of traditional nominal mixes as for traditional Portland Cement.
- To achieve optimum performance from Sulfacrete in concrete or other products, it is essential that it is correctly specified and used.
- 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. When using CEM II cement, it is particularly important to ensure that effective curing is applied.
- 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 Tarmac Cement 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*.
- Sulfacrete is manufactured from natural products, and slight shade variations may occur. Shade variations are likely from differing manufacturing centres.

TECHNICAL SUPPORT

Further information and advice on this product and the full range of Lafarge Tarmac 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 Tarmac Cement Health and Safety Information Sheet.



The information in this data sheet is accurate at the time of printing, but Lafarge Tarmac Cement reserves the right to amend details as part of its product development programme.

For further information

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It's what Britain's built on.