

Technical information

Portland Limestone Cement
(CEM II/A-L (or LL) 32.5R)
PRODUCT DATA SHEET

Blue Circle **MASTERCREE** CEMENT

An enhanced cement, supplied in weather-resistant plastic packaging.

Blue Circle Mastercrete is an enhanced Portland-limestone cement conforming fully to BS EN 197-1 CEM II/A-L (or LL) 32,5R It has the following benefits compared with ordinary Portland cement:

- Enhanced resistance to freeze/thaw attack
- Lower water demand
- Less tendency for water to segregate and bleed.

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

APPLICATIONS

Blue Circle Mastercrete is for use in concretes, mortars, renders and screeds. For specified concrete refer to BS 8500: Concrete – Complementary British Standard to BS EN 206, which provides guidance for different types and classes of cement.

Reference should also be made to the following documents:

- BS 5628: Part 3: Use of Masonry.
- BS EN 13914-1 Design, preparation and application of external rendering and internal plastering.

Sulfacrete should be used where increased resistance to sulfates is required.

PROPERTIES

- Consistent strength meeting all the conformity criteria in BS EN 197-1
- Contains cement quality improver to give the following benefits compared with ordinary Portland cement: lower water demand, more cohesive mix, less tendency for water to segregate and bleed and enhanced resistance of hardened concrete or mortar to freeze/ thaw attack.

AVAILABILITY

Blue Circle Mastercrete is supplied in 12.5 kg and 25kg bags throughout the UK.

STORAGE

Blue Circle Mastercrete is a cement-based material and should be handled and stored with care. This product may be stored, unopened in either indoor or outdoor conditions. Information on the maximum storage period can be found on the bag.

CONDITIONS OF USE

- Blue Circle Mastercrete should not be used where sulfate resistant cement is required
- Blue Circle Mastercrete should not be mixed with additions or other cement types
- Blue Circle Mastercrete may be used in the range of traditional nominal mixes as for traditional Portland cement
- To achieve optimum performance from Blue Circle Mastercrete in concrete or other products, it is essential that it is correctly specified and used
- It is not normally necessary to use a mortar plasticiser with Blue Circle Mastercrete, but where used a lower dosage than normal is suggested
- 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 that effective curing is applied.
- Do not use when air temperature is below 5°C or greater than 30°C

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- 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
- 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
- Blue Circle Mastercrete is manufactured from natural products, and slight shade variations may occur. Blue Circle Mastercrete will also have shade variations from differing manufacturing centres.

HEALTH AND SAFETY

Contact between cement powder and body fluids (eg, sweat and eye fluids) may cause irritation, dermatitis or burns. For further information, including control of soluble hexavalent chromium, refer to the appropriate Tarmac Cement Health and Safety Information Sheets.

TECHNICAL SUPPORT

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

For more details contact:
customerservice@tarmac.com

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.