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TECHNICAL INFORMATION

BLUE CIRCLE PORTLAND LIMESTONE CEMENT®

Portland Limestone Cement (CEM II/A-LL 52,5) **Bulk Product Data Sheet**

Contains a controlled level of high-purity limestone. Conforms to the requirements of BS EN 197-1 for CEM II/A-LL (or L) and contains 6 to 20 per cent limestone.

Blue Circle PORTLAND LIMESTONE CEMENT is quality assured with independent third party certification carrying CE Marking.

APPLICATIONS

Blue Circle PORTLAND LIMESTONE CEMENT can be used in the following applications as an alternative to Portland cement (for exceptions see note overleaf):

- Concrete products.
- Ready-mixed concrete.
- Building, including floor screeds, mortar and rendering.
- Civil engineering.

PROPERTIES

The properties of fresh concrete made with Blue Circle PORTLAND LIMESTONE CEMENT are similar to those of a Bulk Portland CEM I concrete, although the setting time may be slightly shortened and the tendency to bleeding significantly reduced.

Blue Circle PORTLAND LIMESTONE CEMENT has a paler colour, and is therefore especially suitable for decorative and architectural concrete. The appropriate cement content for concrete of a given 28-day cube strength and slump should be determined from trial mixes. The cement content may differ from that of an equivalent Portland cement (CEM I) concrete in certain circumstances.

In particular, where a high strength concrete is required, the cement content may be slightly higher than for CEM I. At the same concrete strength, Blue Circle PORTLAND LIMESTONE CEMENT concrete has similar performance to CEM I concrete in respect of carbonation rate, chloride ingress and resistance to freezing and thawing (both air-entrained and non-air-entrained concrete).



CONDITIONS OF USE

- Concrete, mortars and grouts containing Blue Circle PORTLAND LIMESTONE CEMENT must be specified and used correctly for best performance.
- Blue Circle PORTLAND LIMESTONE CEMENT should not be mixed with additions or other cement types.
- 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.
- Tarmac cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- Blue Circle PORTLAND LIMESTONE CEMENT is manufactured from natural products, and slight shade variations may occur. Blue Circle PORTLAND LIMESTONE CEMENT will also have shade variations from differing manufacturing centres.

AVAILABILITY

Blue Circle PORTLAND LIMESTONE CEMENT is supplied in bulk tankers throughout the United Kingdom.

TECHNICAL SUPPORT

Further information or specification advice on Blue Circle PORTLAND LIMESTONE CEMENT and the full range of Tarmac cements can be obtained through the contacts listed.

The content of this data sheet is correct at the date of publication. Please check our website: www.tarmac-bluecircle.co.uk/bulk for any subsequent changes.

For further information

www.tarmac-bluecircle.co.uk/bulk

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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.

Note: BS 8500 currently restricts the use of concrete containing Blue Circle PORTLAND LIMESTONE CEMENT to Design Sulfate Class DS-1 exposure conditions although BRE Special Digest 1:2005 permits its use in DS-2 sulfate conditions. BS 8500 also does not permit the use of Blue Circle PORTLAND LIMESTONE CEMENT in mixer combinations with ground granulated blastfurnace slag or fly ash.



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