

Technical information

 High Performance Cement
PRODUCT DATA SHEET

Blue Circle EXTRA RAPID CEMENT

A Portland cement containing calcium aluminate to give rapid hardening and setting properties:

- For non-structural repair and maintenance where rapid hardening is required, eg, fence posts, setting manholes, repairs to paths and steps
- Suitable for concrete, mortar, rendering and floor screeds*
- Takes foot traffic in 4-6 hours and vehicular traffic in 8-12 hours.

Blue Circle Extra Rapid is a rapid-setting and hardening Portland based cement. At present there is no appropriate British Standard for this product. Blue Circle Extra Rapid is a quality-assured cement covered by the British Standards Institution Registered Firms Scheme BS EN ISO 9001.

APPLICATIONS

Blue Circle Extra Rapid is for repair and maintenance in building work where rapid setting and rapid hardening properties are beneficial, eg, concrete, mortar, rendering and floor screed repairs.

Typical uses are as follows:

- Concrete drives and paths
- Concrete steps
- Fixing fence posts, railings and copings
- Setting manholes
- Repairing rendering and floor screeds
- Work under water table
- Fitting drainage
- Roof repairs.

Blue Circle Extra Rapid may be used in the range of traditional nominal mixes as for traditional Portland cement. Recommended mixes are available from the packaging, contacts below and website www.tarmac-bluecircle.co.uk.

Due to the rapid setting properties of Blue Circle Extra Rapid, it is recommended that it is placed as soon after mixing as possible, and that mixing time is no longer than that required for thorough mixing.

PROPERTIES

- Portland cement based
- Contains calcium aluminate to give rapid setting and rapid hardening properties
- Sets soon after placing and gains strength rapidly to allow normal services to be brought back into operation in a working day
- Similar final strength to Mastercrete.

AVAILABILITY

Blue Circle Extra Rapid is available in 25kg or 12.5kg plastic bags and 5kg tubs throughout the United Kingdom.

STORAGE

This product should be stored unopened in cool conditions and should be stacked in a safe and stable manner. May be stored outdoors. Information on the maximum storage period can be found on the bag.

TABLE OF PROPERTIES

(For guidance only, not to be used for specification purpose)

Setting time - initial	(minutes)	15 to 30
BS EN 196-1 Mortar compressive strength		
- 4 hour	(N/mm ²)	7 to 13
- 1 day	(N/mm ²)	10 to 19
- 28 day	(N/mm ²)	34 to 46

*Where compliance with a specific British Standard is not required.

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CONDITIONS OF USE

- No attempt should be made to alter the set time of Blue Circle Extra Rapid by use of admixtures or inclusion of Portland cement
- Blue Circle Extra Rapid may be used in the range of traditional nominal mixes as for traditional Portland cement
- To achieve optimum performance from Blue Circle Extra Rapid 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
- Do not use when air temperature is below 5°C or greater than 30°C
- 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.

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.