

TECHNICAL INFORMATION



PROCEM

Portland Cement (CEM I 52,5N) Product Data Sheet

A general-purpose packed Portland cement that complies with the requirements of BS EN 197-1 CEM I. Blue Circle Procem is a quality-assured cement

with independent third-party certification and carries a CE Mark.

APPLICATIONS

Blue Circle Procem is a packed Portland cement that is suitable for use in civil engineering applications such as structural concrete, piling and screeds.

To achieve optimum performance from Blue Circle Procem in concrete, mortar, render, screed or grout, it is essential that it is correctly specified and used.

Attention should be given to an adequate cement content, a water/cement ratio as low as possible consistent with satisfactory placing and thorough compaction, and to adequate curing. Reference should be made to the following documents:

- BS 8500: Concrete - *Complementary British Standard to BS EN 206-1*
- BS 5628: Part 3: *Code of Practice for the 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

- Grey colour
- Consistent strength meeting all the conformity criteria in BS EN 197-1
- Compatible with admixtures such as air-entraining agents and workability aids, with cement replacement materials such as flyash and ground granulated blastfurnace slag, and with pigments. Trial mixes are recommended to determine the optimum mix proportions.



AVAILABILITY

Blue Circle Procem is available in 25 kg paper 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

- Blue Circle Procem may be used in the range of traditional nominal mixes as for traditional Portland cement
- To achieve optimum performance from Blue Circle Procem in concrete or other applications, 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 to mix the materials properly, add the correct amount of water, compact, cure and protect as appropriate
- Do not use when air temperature is below 5C or greater than 30C.
- 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 Procem is manufactured from natural products, and slight shade variations may occur. Blue Circle Procem will also have shade variations from differing manufacturing centres.

TECHNICAL SUPPORT

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



For further information

Technical helpdesk

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