

## PORTLAND 6588 CEMENT

### **DESCRIPTION**

**Portland 6588 Cement** has provided user benefits to the ready mixed and precast concrete and contracting industries for many years and is now available in bags to enable the builder and bricklayer to enjoy those same benefits.

These benefits include an enhanced strength and durability profile, ease of placing and finishing, improved cohesion and water retention in brickwork mortar with the added advantage of economy.

**Portland 6588 Cement** is produced to comply as a combination with the proportions of BS EN 197-1:CEM IIB-V+SR and is accepted for use by most specifications and codes of practices for building and construction works e.g. NHBC Hand-book, Civil Engineering Specification for Water Industry etc.

### **USES**

Concretes and Mortars batched using this cement will exhibit enhanced resistance to attack from sulphates contained in soil and ground water.

In conjunction with the correct mix design from Table 6 Clause 7.2 BS 8500-2:2006, CEM IIB-V+SR can be used to produce up to DC-4 designed class concrete.

**Portland 6588 Cement** can be used on all concreting applications such as:

- General Concreting.
- Cement Rendering.
- Floor Screeding.
- Paths and Drives.
- Slabs and Footings.
- Paving and Garden Walls.
- Bricklaying Mortars.

### **QUALITY & DURABILITY**

To achieve the best results, we draw your attention to the general guidelines on the use of cement shown on the reverse of this information sheet. If in doubt please contact CMS Technical Services.

**Portland 6588 Cement** has been used for many years by the ready mixed concrete industry to produce quality concrete with additional technical advantages over traditional Portland Cement (BS EN 197-1-CEM II 42,5N).

The main benefits are:

- Improved Surface Finish.
- Greater Long Term Strength.
- Sulphate Resistance.
- Improved Durability and Long Term Life.
- Reduced Shrinkage and Creep.
- Economy.

### **QUALITY CONTROL**

It is blended, tested and packaged to Quality Control procedures in accordance with BS EN ISO 9001 Series.

Careful selection of the other concrete or mortar constituents will maximise the benefits, shown above, when using Portland 6588 cement.

The end use of the cement will determine the best choice of sand (fine aggregate) and stone (coarse aggregate) if applicable.

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**General Concreting:** The sand should be clean, sharp concrete sand. The stone should be clean, graded 20mm natural or crushed gravel. Alternatively, all in aggregate (ballast) with 35-40% clean, sharp sand blended with graded 20mm aggregate may be used.

**Paths & Drives:** As above.

**Slabs & Footings:** As above.

**Floor Screeding:** The sand used should be clean, sharp concrete sand. For thick screeds (greater than 75mm) 10mm size clean aggregate may be incorporated.

**Cement Rendering:** The sand used should comply with BS1199, and be clean and free from impurities. Proprietary waterproofing admixtures may also be used in accordance with the manufacturers' recommendations.

**Paving Slab Base:** The sand used should be clean, sharp concrete sand.

**Bricklaying Mortars:** The sand use should be clean, well graded and comply with BS 1200. Mortar produced with Portland 6588 Cement is more workable than OPC produced mortar, thus plasticising agents are not generally required. However, mortar plasticisers and/or air entraining agents may be used with Portland 6588 cement if desired.

Like all materials, to get the best from concrete and mortar a few simple rules apply:

**DO:**

- Use the correct sand and/or stone.
- Use the correct quantities of materials.
- Mix the materials thoroughly.
- Use only enough water for the purpose.
- Compact concrete fully.
- Protect concrete and mortar from premature drying out.
- Protect concrete and mortar from frost.

**DON'T:**

- Use very fine, silty or dirty sands.
- Use any frozen materials.
- Use concrete or mortar below 3°C.
- Use concrete or mortar on frozen ground.
- Use excessive water.
- Allow concrete or mortar to dry out too quickly.

**HEALTH & SAFETY**

For health and safety data, see sheet reference 1/2A.

**PACKAGING & STORAGE**

**This cement** is available in nominal 25kg sacks palletised and shrink wrapped.

**Portland 6588 Cement** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

**Portland 6588 Cement** should be stored in cool dry areas clear of the ground sheeted, or under cover and stacked not more than two pallets high.

The product should be used on a first in – first out basis.

Shelf life is 6 months when properly stored.

**INFORMATION PRICES & ORDERING**

For ordering contact: 01283 550060.

Fax: 01283 550486

For all other enquiries contact: 01283 554800.

NB: Please give not less than 48 hours notice.

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