Hanson Packed Products
Multicem cement
Technical Data Sheet

Hanson Multicem cement is a quality assured Portland Limestone cement manufactured to comply with the requirements of EN 197-1 achieving strength class 32,5R. Hanson Multicem cement is produced using carefully selected raw materials and strict quality control throughout each stage of the manufacturing process to ensure a consistent final product is achieved.

APPLICATIONS

Hanson Multicem cement is commonly used cement for a wide range of applications. These applications cover but are not limited to Multicem concrete, mortar, render and screeds.
NOTE where increased resistance to sulfates is required Hanson Low Carbon/Sulfate-Resisting cement should be used.

QUALITY

Hanson Multicem cement is CE Marked in accordance with Constructions Products Regulation 305/2011/EU. In addition to applying a system of factory production control, based on ISO 9001 and defined in BS EN 197-2, independent sampling and testing of the Hanson Multicem cement, known as Assessment and Verification of Constancy of Performance (AVCP) System 1+, also confirms conformity with all the requirements of BS EN 197-1. A Declaration of Performance (DoP) and CE mark can be accessed from **www.hanson.co.uk**.

MIX DESIGN

Mix designs need to be adapted to suit individual circumstances. It is strongly recommended that trial mixes are carried out prior to commencement of work to ensure that the mix design and material combinations meet the requirements of the specification and method of use. Reference should be made to the following documents:

- BS 8500 which provides guidance for different types and classes of cement.
- BS EN 998: Specification for mortar for masonry. Rendering and plastering mortar.
- BS EN 13914: Design, preparation and application of external rendering and internal plastering.

General Purpose Concrete	Proportions by volume	General Purpose Concrete	Proportions by volume
Cement	1	Cement	1
Concrete Sand	2	Combined Sand and Coarse Aggregate (Ballast)	4
4/20mm Aggregate	3		

Mortar Designation	Proportions by volume Cement : Building Sand	Mortar class that may be assumed	Suitable for use in environmental condition
(i)	1:3	M12	Severe (S)
(ii)	1:3 to 1:4	M6	Severe (S)
(iii)	1:5 to 1:6	M4	Moderate (M)
(iv)	1:7 to 1:8	M2	Passive (P)

COMPATIBILITY

Hanson Multicem cement contains a small amount of an air-entraining admixture, it is not normally necessary to use other admixtures or a mortar plasticiser with Hanson Multicem, but where used a lower dosage than normal is suggested. It is recommended that trial mixes are carried out to determine optimum proportions.

CONDITIONS OF USE

- Methods to prevent loss of moisture from exposed surfaces of concrete, known as curing, should be employed for at least the first 7 days after casting
- As a general rule, concrete should be placed within the range of 10°C to 30°C.
- In cold weather, freshly poured concrete/mortar should be protected from low temperatures to avoid frost damage.
- In hot weather and mass concrete pours, there is increased risk of loss of water by evaporation and cracking caused by thermal stresses which could reduce ultimate strength.
- Hanson Cement cannot be held responsible for poor workmanship.
- Hanson Multicem cement is made from natural materials. Therefore slight variations in colour may occur.
- Hanson Multicem cement produced at different manufacturing works may also have variation in colour.
- To avoid premature deterioration of Hanson Multicem cement please follow the correct storage requirements.

AVAILABILITY

Hanson Multicem cement is supplied in 25 kg bags throughout the UK.

STORAGE

Bags should be stored unopened clear of the ground in cool dry conditions and protected from excessive draft and all sources of moisture. The maximum shelf life of packed cement is stated on the bag.

TECHNICAL SUPPORT

For further advice please contact Hanson Cement's Technical Helpline on 0330 123 2441.

HEXAVALENT CHROMIUM (VI)

In accordance with the Regulation EC 1907/2006 (REACH), the soluble chromium (VI) content is limited to a maximum of 2ppm. The chromium (VI) content is determined in accordance with EN 196-10. The maximum shelf life of packed cement is stated on the bag.

HEALTH AND SAFETEY

Cement causes skin, eye and respiratory irritation, severe burns and dermatitis. Always wear suitable personal protective equipment (PPE) and refer to the full Material Safety Data Sheet for further information.

For further information contact:

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