

Heidelberg Materials Multicem cement

Technical data sheet

Heidelberg Materials Multicem cement is a quality assured Portland Limestone Cement manufactured to comply with the requirements of EN 197-1. Heidelberg Materials 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. The strength classes available are 32,5R or 42.5N depending which manufacturing works the Multicem cement is supplied from.

Heidelberg Materials 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 Heidelberg Materials Low Carbon/Sulfate-Resisting cement should be used

Quality

Heidelberg Materials Multicem cement is UKCA Marked in accordance with Construction Products Regulation (Amendment etc.) (EU Exit) Regulations 2020. 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 Heidelberg Materials 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 UKCA mark can be accessed from www.heidelbergmaterials.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.

On the next page is a guide to typical mixes for concrete and mortar applications.

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General purpose concrete	Proportions by volume	General purpose concrete	Proportions by volume
Cement	1	Cement	1
Concrete Sand	2	Combine 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)

*Mortar class is assumed. The end user is responsible for any required conformity testing to show compliance to the specified mortar class.

Compatibility

Heidelberg Materials General Purpose cement is suitable for use with a wide range of additives and admixtures to extend the properties and uses of concretes, mortars, renders and screeds. It is recommended that guidance is sought from the admixture manufacturer and trial mixes are carried out to determine optimum proportions.

Availability

Heidelberg Materials Multicem cement is supplied in 25 kg bags throughout the UK. Heidelberg Materials Multicem is also available in Tough bag significantly saving in plastic usage.

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.

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 5°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.
- Heidelberg Materials Cement cannot be held responsible for poor workmanship.
- Heidelberg Materials Multicem cement is made from natural materials. Therefore, slight variations in colour may occur.
- Heidelberg Materials Multicem cement produced at different manufacturing works may have variation in colour.
- To avoid premature deterioration of Heidelberg Materials Multicem cement please follow the correct storage requirements.

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Hexavalent chromium (VI)

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 Multicem cement is stated on the bag. Tough bag = 6 months, Plastic bag = 12 months

Health and safety

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.

Technical support and further information

For further advice please contact Heidelberg Materials cement technical support on **0330 123 4525** or **cement@uk.heidelbergmaterials.com**

Further copies of this technical data sheet may be obtained from www.heidelbergmaterials.co.uk