

White Portland Limestone cement CEM II/A-LL 52,5R

Technical data sheet

Heidelberg Materials White Portland Limestone Cement (CEM II/A-LL 52,5R) is a quality cement manufactured to comply with the requirements of BS EN 197-1. Heidelberg Materials White Portland Limestone Cement is recommended for use in concrete, mortar and render with or without pigments. The setting and strength characteristics of Heidelberg Materials White Portland Limestone Cement are similar to Grey Portland Limestone Cement.

Applications

Heidelberg Materials White Portland Limestone Cement is naturally chosen for its high degree of light reflection. To obtain white or light-coloured concrete specially selected white or light coloured sand and stone aggregates are required. Coloured concretes and renders are achieved by adding pigments specifically designed for the use with cements. It is recommended that trial mixes are carried out to determine compatibility and optimum dosage rates of pigmentation.

For extremely white concrete, Titanium Dioxide pigment may be added up to 5% by weight of cement. Typical applications for Heidelberg Materials White Portland Limestone Cement include: cast stone, rendering, cladding panels, exposed aggregate finishes, structural concrete, pointing mortars, terrazzo finishes and precast units

Quality

Heidelberg Materials White Portland Limestone Cement is manufactured from specially produced white Portland clinker using carefully selected raw materials avoiding minerals which would colour the final cement. Strict quality control throughout each stage of the manufacturing process ensures that a consistent final product is achieved.

Heidelberg Materials White Portland Limestone Cement is UKCA marked under the Construction Products

Regulations which provides independent third-party certification of product conformity. It ensures that in addition to applying a system of factory production control (defined in BS EN 197-2), independent sampling and testing of the cement has confirmed its compliance with all of the requirements of BS EN 197-1. Heidelberg Materials General Purpose cement Declaration of Performance (DoP) and UKCA mark can be accessed from www.heidelbergmaterials.co.uk

Compatibility

Heidelberg Materials White 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 trial mixes are carried out to determine compatibility and optimum proportions. Care should be taken to select an admixture which does not adversely affect product colour.

Availability

Heidelberg Materials White Portland Limestone Cement is available across the United Kingdom in 25 kg bags.

Mix design

Concrete 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.

Storage

Bags should be stored unopened, clear of the ground, in cool dry conditions and protected from excessive draft and all sources of moisture.

Heidelberg Materials White Portland cement is naturally low in Hexavalent Chromium (VI), shelf life requirements are not required but a maximum of 12 months is suggested to maintain quality. Date of manufacture is printed on the bag.

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Hexavalent Chromium (VI)

Heidelberg Materials White Portland Limestone Cement has a naturally low Chromium content of $\leq 2\text{mg/kg}$ and meets the requirements of Regulation EC 1907/2006 (REACH).

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 should be protected from low temperatures to avoid frost damage.
- In hot weather and mass concrete pours, there is increased risk of cracking due to loss of water by evaporation and cracking due thermal stresses which could reduce ultimate strength.
- Heidelberg Materials can not be held responsible for defects caused by poor workmanship.
- Heidelberg Materials White Portland Limestone cement is made from natural materials. Therefore slight variations in colour may occur.

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

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