

CEMI 52.5N cement

Technical Datasheet



Whitestar CEMI 52.5N cement is a quality assured Ordinary Portland cement manufactured to comply with the requirements of EN 197-1 and supplied in large 1500kg bulk bags

APPLICATIONS

Whitestar CEMI 52.5N Cement is high clinker, commonly used cement for a wide range of applications. These applications cover but are not limited to general purpose concrete, mortar, render and screeds.

TECHNICAL SPECIFICATION	
Pack size	1500kg Bags
Clinker Content	≥95%
Initial set (en197-1) (>45min)	Typical: 145 min
Colour	Grey

COMPRESSIVE STRENGTH	
2 Day	>20 N/mm ² (Typical ≥30 N/mm ²)
28 Day	>52.5 N/mm ²

Strength testing to BS EN 197-1

AVAILABILITY

Whitestar CEMI 52.5N Cement is supplied in 1500kg bulk bags throughout the UK.

MIX DESIGN

Mix designs need to be adapted to suit individual applications. It is 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. Below is a guide to typical mixes for concrete and mortar applications.

COMPATABILITY

Whitestar CEM1 52.5N 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 optimum proportions.

General Purpose Concrete	Proportion by Volume
Cement	1
Combined Sand and Coarse Aggregate (Ballast)	4

General Purpose Concrete	Proportion by Volume
Cement	1
Concrete sand	2
4/20mm Aggregate	3

Mortar Designation	Proportion by Volume Cements: Building Sand	Mortar class that may be assumed	Suitable for use in environmental conditions
(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)

*Note small amounts of air-entraining mortar plasticiser may be necessary

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GUIDANCE FOR 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. As a consequence, protecting it is even more important to prevent moisture loss during curing
- ✿ Whitestar Packed Products cannot be held responsible for poor workmanship
- ✿ Whitestar CEMI 52.5N Cement is made from natural materials. As a consequence, slight variations in colour may occur
- ✿ Whitestar CEMI 52.5N Cement produced at different manufacturing works may also have variations in colour
- ✿ To avoid premature deterioration of Whitestar CEMI 52.5N Cement please follow the correct storage requirements given.

STORAGE

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

TECHNICAL SUPPORT

For further advice please contact Whitestar Technical Helpline on 0800 161 3715.

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