

Uniclass L6212	EPIC F2112	June 06
CI/SfB	Eq2	

Castle High Strength 52,5 is manufactured to comply with the requirements of BS EN 197-1 : 2000 CEM I Portland cement strength class 52,5N and to have improved early age strengths.

Applications

High Strength 52,5 is ideal for use in concrete, mortar, render and screed where higher early strength is required. For example, manufacture of precast components, ground work, cold weather working and faster turn-round of projects.

Quality

High Strength 52,5 is produced using carefully selected raw materials. Strict quality control throughout each stage of the manufacturing process ensures that a consistent final product is achieved.

High Strength 52,5 is CE marked under the European Union system of conformity evaluation which provides independent third party certification of product conformity. It confirms that in addition to applying a system of factory production control (defined in BS EN 197-2 : 2000), independent sampling and testing of the cement has confirmed its compliance with all of the requirements of BS EN 197-1 (see Quality Assurance).

Technical information on the quality of High Strength 52,5 is available to customers on request from Castle's Technical Helpline on 0845 722 7853. Reports of tests providing data on fineness, setting times, soundness, chemical composition including alkali levels and compressive strengths of mortar prisms are available.

Strength

High Strength 52,5 is manufactured to achieve higher earlier strengths and the use of High Strength 52,5 affords a significant early strength advantage in the first 24 hours after mixing and with setting times similar to Castle cement.

Optimum performance in terms of strength, chemical resistance and durability is achieved in concrete when the water/cement ratio is kept as low as possible consistent with ensuring satisfactory placing and thorough compaction.

Other factors affecting strength include conditions of curing as well as the individual properties of the constituent materials and their proportions in the mix.

High Strength 52,5 helps to increase precast concrete production since forms can be struck and the units moved and put into use more quickly.

Concrete mix design

No special principles of cement mix design are required when using High Strength 52,5. However, some modifications to mix design may be helpful to achieve the full benefit of its early strength properties.

Admixtures and additions

Admixtures such as air-entraining agents and workability aids, additions such as ground granulated blastfurnace slag and Castle BS EN 450 Fly Ash, are compatible with High Strength 52,5. It is recommended that trial mixes are carried out to determine optimum proportions.

Shelf life

Under the Chromium (VI) Directive, High Strength 52,5 has a shelf life of four months from the date of packing shown on the bag.

Availability

Available in 25kg bags.

For further information please contact:

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