



constructive solutions

Cebex 112

Mortar plasticizer

Uses

Improves workability and trowelling properties of sand/cement mortar mixes during application and increases frost resistance for bricklaying, pointing and rendering.

Advantages

- Eliminates use of lime in masonry applications. Saves storage space and failures due to unsound lime.
- Improve moisture retention and bond strengths.
- Make mortar frost resistant.
- Highly economical. Maximum yield of up to 20%.
- Improves harsh sands.
- Can be used in coloured mortars.

Standard compliance

Cebex 112 complies with BS 4887, Mortar Plasticisers. It conforms with the recommendations of BRE Digest 160.

Description

Cebex 112 is supplied as a light brown coloured liquid which mixes readily with water in any proportions. It is based on polymerised resins and is free from calcium chloride and similar salts.

When added to the mortar Cebex 112 entrains a controlled quantity of air which imparts greater workability and cohesion to the mortar, and increases its durability once set. Use of Cebex 112 reduces thermal movement and drying shrinkage in the cured mortar.

Properties

Calcium chloride content

Nil. Cebex 112 can be used in conjunction with Conplast NC chloride-free accelerator (see separate data sheet) to obtain acceleration of set during winter working. Conplast NC should be added first, followed by the Cebex 112.

Compatibility with other admixtures

Cebex 112 should not be mixed with any admixtures unless advised by our technical department.

Compatibility with cements

Can be used with any type of Portland, super sulphate or blast furnace cement. For advice on use with other types consult our technical department.

Setting time

There is no significant effect on the setting time of mortars.

Plasticising action

Cebex 112 entrains a controlled amount of microscopic air bubbles which increase cohesion and provide lubrication to the sand particles in the mix, thereby imparting improved workability to the mortar. The air bubbles hold the cement / water matrix at the contact surfaces which results in improved bond strengths.

Frost resistance

The air entrainment appreciably increases the frost resistance of the fully cured mortar. The use of an air entraining plasticiser also improves the frost resistance of fresh mortar and is recommended in BRE Digest 160.

Precautions

Health and safety

Cebex 112 is mildly alkaline. Avoid unnecessary contact with the skin. Accidental splashes to eyes should be washed immediately with plenty of water and medical treatment sought.

Instructions for use

Mixing

Cebex 112 may be added directly to the sand/cement/water mix or, where more convenient, may be pre-mixed with the gauging water. Mechanical mixing is to be preferred but thorough manual mixing gives acceptable results.

Dosage

Cebex 112 drums

Direct to the mix 0.15 - 0.30 litres of Cebex 112 for each 50 kg of cement. To the gauging water 0.75 - 1.50 litres of Cebex 112 to 200 litres of water. The nature of the sand will determine the optimum amount necessary; a plastering grade will require less and a coarse washed sand more. Site trials are recommended to determine the practical dosage in each case. Average dosage in 1:6 mix, 4.5 litres Cebex 112 is sufficient for 5000 bricks.

Cebex 112 Sachets

These contain a pre-measured quantity of Cebex 112 which should be added at the following typical rates. Direct to the mix 1 sachet per 50 kg of cement. To the gauging water 5 sachets per 200 litres of water.

Cebex 112

Overdosing

Overdosing of Cebex 112 will result in increased workability and air entrainment.

Cleaning

Spillages of Cebex 112 should be removed with water.

Mix design

Application	Normal mix			Mix with Cebex 112		
	Cement	Lime	Sand	Cement	Lime	Sand
For concrete bricks + blocks, clay bricks + blocks externally or internally. Externally for high strength / low shrinkage sand-lime bricks.	1	1	6	1	-	6
Low strength for light-weight blocks and high shrinkage sand-lime bricks.	1	2	9	1	-	8
For high strength engineering bricks.	1	1-4	3	1	-	3
General pointing of bricks and blocks	1	-	2	1	-	3
General rendering of bricks and blocks	1	1	6	1	-	5 - 6

Storage

Minimum shelf life of 12 months provided the temperature range has not exceeded 2°C to 30°C. If these conditions have been exceeded in any respect the supplier should be contacted for advice.

Packaging

Cebex 112:	25 and 210 litre drums
Cebex 112:	Plastic sachets - 50 per carton

Technical service

The company provides a technical advisory service supported by a team of specialists in the field.

Additional information

Technical data and guidance can be provided on a wide range of admixtures and concreting aids including plasticisers, retarders, waterproofers, mould release agents, surface retarders, workability aids and repair materials.



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