



CX SUPERPLAST 550

Mortar Plasticizer

Uses: To improve workability and toweling properties of sand/cement mortar mixes during application to increase quality of masonry and plastering

Features & Benefits:

- **Improved moisture retention and bond strength:** Slows down drying out of mortar which remains workable longer. Ensures better bond to all surfaces, including ceiling.
- **Makes mortar crack resistant:** Minimizes drying shrinkage cracks and increases frost resistance in cold climates.
- **High workability:** Even with harsh sands, makes creamy easy-to-apply mortar.
- **Cost saving:** Increase yield of the same quantity of sand/cement. Extra coverage normally exceeds material costs.
- **Better & safer masonry:** Mortar fills joints easily and efficiently and ensures stronger construction.
- **Improved appearance:** Mortar cuts cleanly from faces of brick, block or stone work.
- **Increased productivity:** Speeds up work by easy application of mortar.

Description: CX SUPERPLAST 550 Mortar Plasticizer is supplied as off-white to pale yellow liquid which mixes readily with water in any proportions. It is based on internationally recognized chemicals and is free from calcium chloride and similar salts.

Properties:

- **Chloride content :** Nil
- **Compatibility with cements:** Can be used with any type of Portland, Super Sulphate, Blast furnace or Pozzolanic cements.
- **Setting time:** There is no significant effect on the setting of sand/cement mortars.
- **Plasticizing action:** CX SUPERPLAST 550 Mortar Plasticizer entrains a controlled amount of microscopic air bubbles which increase cohesion and provide lubrication to the same 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:** Where this is a consideration, that air entrainment appreciably increases the frost resistance of the fully cured mortar and also improves that of fresh mortar, as established by international practice.
- **Increased yield:** The special action of CX SUPERPLAST 550 Mortar Plasticizer causes the cement particles to disperse evenly throughout the mix, which combined with its air entrainment property, expands the volume of the mortar. Increase in yield for the same quantities of sand and cement is typically between 8% and 18%, depending upon the coarseness or fineness of the sand used.
- **With typical mixes of 1:3 and 1:4 cement:** sand, the cost of CX SUPERPLAST 550 Mortar Plasticizer will normally be recovered and, in most cases, a net cost saving will be obtained, as a result of the increased yield.

Application instructions:

Mixing: CX SUPERPLAST 550 Mortar Plasticizer may be added either direct to an individual mix or to the gauging water, depending upon site convenience.



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Direct to the mix:

1. Use between 0.100 and 0.200 liters of CX SUPERPLAST 550 Mortar Plasticizer per 100kgs of cement. Soft fine sand will require least and harsh sands most. Site trials will best determine the practical rate of addition in each case and are recommended.
2. CX SUPERPLAST 550 Mortar Plasticizer to be stirred thoroughly before use. Measure the total required quantity of CX SUPERPLAST 550 Mortar Plasticizer and stir into the first bucket of the gauging water.
3. After dry mixing the sand/cement in the normal way, add the CX SUPERPLAST 550 Mortar Plasticizer / water mixture and start wet mixing.
4. Continue adding plain water and mixing the mortar until the required workability is obtained.

Note: Do not add CX SUPERPLAST 550 Mortar Plasticizer directly to dry sand/cement mortar.

1. Add between 0.100 and 0.2 liters of CX SUPERPLAST 550 Mortar Plasticizer to every 100 liters of water and stir well to ensure even dispersion.
2. Use the CX SUPERPLAST 550 Mortar Plasticizer / water mixture to make the mortar in the usual way and keep adding and mixing until the required workability is obtained.

Lime Mixes: Where a small quantity of hydrated lime is usually added to a sand/cement mix to fattiness and plasticity, the lime may normally be omitted and CX SUPERPLAST 550 Mortar Plasticizer used to replace it with economic benefits.

Curing: Mortar containing CX SUPERPLAST 550 Mortar Plasticizer should be properly cured in accordance with accepted practice and protected against sun and drying winds.

Overdosing: Overdosing of CX SUPERPLAST 550 Mortar Plasticizer will result in increased workability and air entrainment.

Cleaning: Spillages of CX SUPERPLAST 550 Mortar Plasticizer should be removed with water.

Limitations: Excess dosage of CX SUPERPLAST 550 Mortar Plasticizer, will result in reduction of the final strength of the mortar. An overdose of double the recommended measure of CHEMAX AP509 will result in increased retardation of the initial set of the concrete. The ultimate strength of the concrete will not be affected and could be increased if advantage is taken of the increased workability by reducing water.

Estimating

Packaging: CX SUPERPLAST 550 Mortar Plasticizer is supplied in 1, 5, 20 and 200 liter containers.

Storage

Shelf life: CX SUPERPLAST 550 Mortar Plasticizer has a minimum shelf life of 12 months under normal ambient temperatures. It should be protected from temperatures above 40°C and stored in shade.

Precautions

Health and safety instructions: CX SUPERPLAST 550 Mortar Plasticizer is mildly alkaline. Avoid contact with the skin. Accidental splashes to eyes should be washed immediately with plenty of water and medical treatment sought.

Fire: CX SUPERPLAST 550 Mortar Plasticizer is non inflammable.

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DATA SHEET

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