

ELMAX System

For the production of extended life and stabilized ready-mixed mortar

APPLICATIONS

- Production of extended life ready-mixed mortar
- Stabilization setting time of fresh and hardened mortar

DESCRIPTION

Extended life ready-mixed mortar ELMAX System is a combination of cementitious materials, aggregate and water and chemical admixtures, designed to improve the properties of fresh and hardened mortar while stabilizing setting time according to specific project requirements. The system is composed by a retarding admixture, a water retention admixture and an air entrained.

FEATURES AND BENEFITS

ELMAX System was formulated to produce stabilized mortar and is not mixed on the jobsite. Mortar with ELMAX arrives on the site in a ready-mix truck, just like the ready-mix concrete. Mortar with ELMAX can stay workable 12, 24, 36 or more hours, depending on the requirements of the project. According to ASTM C270, conventional mortars have to be used before 2.5 hours. Longer time, will mean cost reduction and profit increase, since in such a short time only limited quantities can be consumed. The duration of the stabilized mortar is regulated changing the dosage of the admixtures. Stabilized mortar is stored in plastic stage for a specific period or time. The in-use and the end of the day returned to the container because it could initiate the mortar's setting, the mortar can be retempered without changing its properties. When the mortar is placed, the water and admixtures are absorbed, with which the mortar recovers the setting properties of a mortar produced in site.

ADVANTAGES

For the ready-mix producer:

- The extended life mortar can be produced

and delivered in a different schedule than the concrete production allowing for optimization of labor.

For the contractor

- Mortar obtains consistency in strength, color and texture. Eliminates waste of materials.
- Eliminates delays in the initial deliveries of mortar to masons in the morning (or of extra labor paid to mixer operators for an earlier start of work)
- No need of capital investment in a mixer and elimination of the related operation and maintenance problems.
- Cost reduction eliminating extra time retempering the mortar. .
- Elimination of extra area needed to store and mix materials, as well as cleaning of this area after the project.

COMPONENTS OF THE SYSTEM

ELMAX 1. Retarding admixture

The setting time of the mortar depends of the dosage of ELMAX 1 and of cement content. The recommended dosage of ELMAX 1 ranges between 8 and 14 cc by kg of cement. For in site trial the recommended dosage is of 10 cc is as a starting point of reference reducing 2cc by kg of cement according to the stabilizing time required.

For more than 36 hours of stabilization normally more than 14 cc of dosage is necessary.

ELMAX 3. Humidity retention admixture

This admixture has a dosage range within 8 and 12 cc per kg of cement, depending on the environmental conditions that the mortar



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is exposed to, e.g.; temperature and relative humidity. For initial in site mock trials, a dosage of 10 cc per kg of cementitious materials is recommended, and increments or reductions from 2 to 2cc

MB-VR. Air-Entrained Admixture

Workability and cohesiveness depends on the air-entrained. According to the main international standards, air content in the mortar should not exceed 18%. Dosage depends on the quantity and type of cement used and varies between 1 and 3 cc per kg of cementitious material. We recommend starting dosage with 2 cc with increments or reduction of 1 cc.

PRECAUTION

If any of the ELMAX System components freeze, thaw at 7°C or more and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

PACKAGING

ELMAX System is supplied in 208 L drums.

STORAGE

Life shelf of ELMAX System is minimum of 12 months if stored in its original, closed containers in a fresh and dry area.

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