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ELEMENTS
QUÍMICA APLICADA



AIR

Air entraining admixture

Description

e⁵ AIR is an air entraining admixture for concrete and mortar. Its formulation is based on tensoactive agents that help to give workability to the mix. This admixture does not contain added chlorides in its formulation.

Benefits

-  Decreases the unit mass of concretes and mortars, for applications that require an improvement in thermal and acoustic properties of the elements.
-  Reduces the volume of water required to achieve the desired consistency as a result of the entrained air.
-  Ready to be used admixture or it can be diluted 1:10 depending on the desired air content.
-  Compatible with all other chemical admixture.

e⁵ AIR

Technical information

Specific gravity 1.01

Physical appearance: light green liquid

Presentation

19 L pails, 200 L drums and bulk

Useful life 24 months in its original container

Main applications

-  Concretes with coarse fine aggregates
-  Light weight concretes
-  Light weight mortars
-  Temporary fillers
-  Preparation of compounds for tunnel support below and behind structures, as well as for tunnel coatings

Directions for use

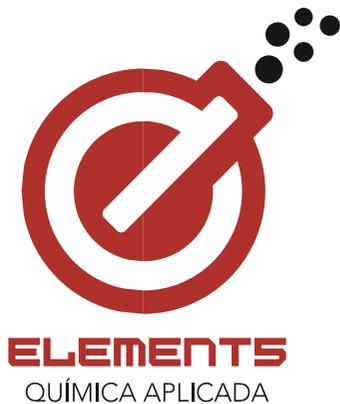
Lab tests with the job materials are recommended to improve results. This allows making all the necessary adjustments on the mix, such as: appearance, workability, consistency and the admixture dosage. Then, it is important to repeat these tests under real job conditions (humidity, temperature, etc.), to allow making final adjustments.

For fluid fills: Add the admixture in the load zone, then load 80 % of the mix water and the fine aggregate with the mixer in motion. This will increase the admixture's efficiency. Following, add the cement and the rest of the mix design water and finish the mixing process.

The dosage can vary from 0.1 to 5 mL per m³ of the 1:10 dilution and the dose will depend on the dry mix design to be used.

Cautions

-  An overdose can lead to low mechanical strengths.
-  When mixing with lignosulfonate based admixtures, it is necessary to control the dose to prevent setting time delays.
-  Check the dosage, in combination with retarding admixtures, to control the dose and avoid setting time delays.
-  Any important change in materials (different aggregates, cement, etc.), requires that the necessary adjustments be made in the dosage used.
-  Do not allow the product to freeze.
-  Always keep the product in its original container.



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