



ELEMENTS
QUÍMICA APLICADA

e⁵ AIR D 10
Air entraining admixture



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Description

e⁵ AIR D 10 is an air entraining admixture for mortars and concretes. It is formulated with tensoactive ingredients that help to give workability to the mix. This admixture does not have added chlorides in its formulation.

Benefits

- It decreases the unit mass of mortars and concretes. This is good for applications that need to improve the thermal and acoustic properties of the elements.
- It reduces the volume of water required to achieve the desired consistency, due to the entrained air.
- It is a ready to be used admixture, depending on the desired air content.
- It is compatible with all other chemical admixtures.

Technical information

Specific gravity 1.01

Physical appearance: slightly green liquid

Presentation

19 L pail, 200 L drum and bulk

Useful life: 24 months in its original container

Principal applications








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

Directions for use

Running lab tests, with the job materials, is recommended to improve results. This allows making all the necessary adjustments to the mix, such as appearance, workability, consistency, and the admixture dosage. Then, it is important to repeat these tests under real operating conditions (humidity, temperature, etc.), for the purpose of making the final adjustments.

For fluid fills: Before the mixer enters the loading zone, add the admixture. Then add 80 % of the mix design water and the fine aggregate with the mixer in motion. This will increase the efficiency of the admixture. Then add the remaining 20 % of the mix design water and the calculated amount of cement. The admixture dosage can vary from 0.1 to 5 mL/m³ of the 1:10 dilution, and will depend on the design of the dry mix to be used.

Cautions

-  The over dosage of admixtures can result in low mechanical strengths.
 -  When mixing with a lignosulfonate admixture, it is necessary to control the dosage to avoid setting time delays.
 -  Check the dosage in combination with retarding admixtures. This will help to control the dose and prevent setting time delays.
 -  In the event of important variations in materials (change of aggregates, cement, etc.), it is important to make the necessary adjustments in the admixture dosage.
 -  Do not allow the product to freeze.
 -  Always keep the product in its original container.
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