



e⁵ DRA ALFA
Water reducer and retardant admixture

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Description

e⁵ **DRA ALFA** is a water reducer and retardant, formulated with environmentally friendly dispersants. It is a high technology admixture, specially designed to break the flocculating effect of cement particles as cement makes contact with water. It allows water reductions greater than 5% and widely complies with ASTM C 494 for a type D admixture.

Benefits

- It increases the mechanical strength of concrete.
- Improves the rheological properties of concrete.
- It reduces the permeability of concrete.
- Reduces the water/binding materials ratio.
- Allows adequate transportation of fresh concrete mixed in warm climates.
- It increases the durability of the mixes.
- Reduces manufacturing cost per m³ of concrete.

Technical information

Specific gravity 1.22

Physical appearance: dark brown liquid

Presentation

19 L pails, 200 L drums and bulk

Useful life: 12 months in its original container

Principal applications

- Conventional concretes
- Pumpable concretes
- Structural concretes
- Concretes placed under water, in combination with our admixtures e⁵ **AWA (Anti Washout Admixture)** and e⁵ **SP 2000**

Directions for use

In order to improve results, lab tests are recommended with the job materials. This allows making all the necessary adjustments in the concrete mix, such as: appearance, workability, consistency, air content, yield, setting times and the admixture dosage.

It is then important to replicate these tests under real job conditions (humidity, temperature, time to transport fresh concrete, etc.), in order to make the final adjustments.

Load all the mix design materials: aggregates, cement and 80 % of the mix water. Allow the materials to mix during 2 minutes. Then add the established volume of admixture along with the remaining 20 % of the mix water and finish mixing. This will allow the calcium sulfate to form ettringite with the cement's tricalcium aluminate, improving the admixture's performance.

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The dosage can vary from 4 to 9 mL/kg of cement, depending on the concrete's mix design. An overdose can result in delays in the cement's speed of hydration.

When used in combination with an integral waterproofer, it is necessary to check the air content and setting times in the concrete mix.

Perform tests in combination with other admixtures to check for admixture synergies, specially in air content and setting times.

It is compatible with all admixtures. In the event of any important variation in materials (change of aggregates, cement, etc.), it is necessary to make the required adjustments in the dosages used.

Cautions

-  Do not allow the product to freeze.
-  Always keep the product in its original container.
-  Never add the admixture to the aggregates or to fresh cement before its initial hydration, as these actions will cause a decrease in its efficiency.

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