



ELEMENTS
QUÍMICA APLICADA

e⁵ AWA

**Anti washout admixture for concrete
cast under water**

Description

e⁵ AWA is a viscosity modifier, produced with the most recent polymers. This differs from traditional viscosity modifiers that are made with cellulose gum or derivatives.

Designed to modify the viscosity of the aqueous medium in systems with portland cement or other binders. Systems with e⁵ AWA show excellent viscoelasticity.

Benefits

- Increases the viscosity of cementitious mixes.
- Considerably reduces loss of paste in cementing systems in the fresh state, as it enters in contact with water.
- Improves the rheological properties of cementitious systems.
- Reduces segregation in highly fluid mixes.
- Allows pumping flowable fill.
- Improves water retention in cement systems.

Technical information

Specific gravity 1

Physical appearance: light yellow

Presentation

19 L pails, 200 L drums

Useful life: 12 months in its original container

Principal applications

- Concretes cast under water
- Tremie concretes
- High consistency concretes, such as flowable concretes
- Self consolidating concretes
- Concretes or cementitious systems that are self levelling
- Excellent to improve paste adherence on permeable concretes
- Concretes for foundation piles
- Concretes with crushed aggregate and with high fineness modulus sand

Directions for use

An admixture overdose can cause excessive air content.

Conduct tests in combination with other admixtures to check for synergy behavior, specially with regards to 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 dosage used.

Due to its effect on the appearance of the mix, it is possible to increase the coarse aggregate content in the mix.

Cautions

Do not allow the product to freeze.

Always keep the product in its original container.

Never add the admixture with the aggregates, or to the cement, without the cement's initial hydration, as these actions will decrease the admixture's efficiency.

Running lab tests, with the job materials is recommended for better results. This allows making all the necessary adjustments on the concrete mix, such as: appearance, workability, consistency, air content, yield, setting times and the admixture dosage. Then, it is important to repeat these tests under real job conditions (moisture, temperature, time to transport fresh concrete, etc.), for the purpose of making all the final adjustments.

Load all the mix design materials: aggregates, cement and 80 % of the mix water, along with the e⁵ AWA. Allow these components to mix during 2 minutes. Then, add the established volume of admixture(s) with the remaining 20 % of the mix water and finish mixing.

The dosage can vary between 0.5 and 3 % in mass of the water in SSD (saturated, surface dry) conditions, and will depend on the design of the concrete in question.

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





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División Químicos para la Construcción
Carr. Lago de Guadalupe No. 127 Int. 601,
Margarita Maza de Juárez, Atizapán de Zaragoza,
Estado de México, Cp. 52926.
Tel. +52 55 2484 2236 | +52 55 4995 3154
contacto@element5.mx
www.element5.mx