

e⁵ SP 2030 H

**HIGH-RANGE WATER-
REDUCER AND
SUPERPLASTICIZER
ADMIXTURE**

DESCRIPTION

e⁵ SP 2030 H is a high-range water reducer, and superplasticizer. It is produced with high-tech polymers specially designed to interact with cement particles and hence avoid the flocculating effect. It allows water reductions as high as 20%. It widely meets the requirements as a type F, F2 according to the standards NMX-C-255-ONNCCE and ASTM C-494 and as a type I according to ASTM C-1017.

BENEFITS

- The use of **e⁵ SP 2030 H** in concretes:
- It allows achieving high strengths at early ages.
- High flow in concretes without presenting retarding effects in setting times.
- It increases tensile and compressive strengths.
- It improves the rheological properties.
- It reduces concrete's permeability.
- It reduces the water to binding material ratio.

TECHNICAL INFORMATION

- Specific gravity 1.24
- Physical Appearance: Dark brown liquid

PRESENTATION

- 18 L pail
- 200 L drum
- 1000 L tote
- Bulk

Useful life: 12 months in its original container

PRINCIPAL APPLICATIONS

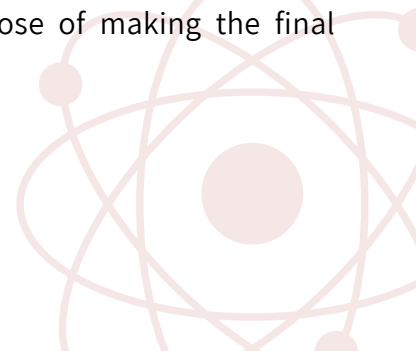
e⁵ SP 2030 H can be used in the mixing of the following concretes:

- High-performance concrete.
- Self-consolidating concrete.
- Pumpable Concrete.
- Permeable Concrete.
- Concrete placed under water (in combination with our e5 AWA antiwashout admixture).
- High mechanical strength concrete.
- Lightweight Concrete.
- Conventional Concrete.
- High-strength structural concrete.
- Wet shotcrete (in combination with alkali-free accelerator) **e⁵ SHOT AF L**.

DIRECTIONS FOR USE

For better results, we recommend running lab tests with the job materials. This allows performing all the necessary adjustments in the concrete mix. These can be: appearance, workability, consistency, air content, yield, setting times and the admixture dosage.

Then, it is important to rerun these tests at an industrial level, under the real job conditions (humidity, temperature, fresh concrete transfer times, etc.), for the purpose of making the final adjustments.



Add **e⁵ SP 2030 H** along with 80 % of the mix water during preparation of the concrete. Load aggregates and cement according to the established order.

Once all the materials, including the 20% remaining water has been loaded, allow mixing for one minute for each m³ of concrete at mixing speed.

Do not add admixture to materials without previous hydration.

Dosages can vary from 4 to 20 mL/kg of cement. This will depend on the design of the concrete to be mixed.

An overdosage to that established can result in a delay of hydration speed of cement and undesired air contents.

Consult with your **Element5 Integral Solutions Advisor** for the preparation of durable concretes, and with an important economic benefit.

For any question or doubts about the product, please contact **Element5 Technical Support Department**.

CAUTIONS

- It is not compatible with polycarboxylate-based admixtures.
- Perform tests in combination with other admixtures, to check the admixture synergy effects, mainly in air content and setting times.
- Never add the admixture with aggregates or to the cement, without its prior initial hydration, as this will decrease the admixture efficiency.
- An overdosage can affect the setting times. In consequence, this affects the mechanical strength at early ages.
- Do not allow freezing of the product.
- In the event of any variation in the materials (change of aggregates, cement, etc.), or weather conditions, it is necessary to make the required adjustments in the established dosages.

- Always keep the product closed in its original container, agents. Do not damage the product containers, as this can cause admixture overflow. Consult MSDS before using the product.

Element5 Química Aplicada S.A. de C.V. guarantees that the product meets the established quality and that it is exempt of fabrication problems.

When the product is outside its established life, and it has been handled by the user, **Element5 Química Aplicada S.A. de C.V.** does not extend any type of additional warranty, as we have no control over the present variables in the application or handling of the product.

The present document only contains general recommendations.

The technical interpretation that derives in specifications of our product is the user's responsibility.

That, that is not written in this document and warranty is not contemplated.

If it's necessary to know in detail any data in reference to the product or recommendations. Please contact our **Element5 Technical Support Department**. Visit our website where our privacy statement is available for you.



ELEMENTS[®]

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