



ELEMENTS[®]
QUÍMICA APLICADA

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 and as a type I admixture, according to the standards NMX-C-255-ONNCCE, ASTM C-494 and 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 of concrete.
- It reduces concrete's permeability.
- It reduces the water to binding material ratio.
- With an adequate dosage it can increase for a longer time the consistency of mixes as compared with other admixtures of the same type.

TECHNICAL INFORMATION

- Specific gravity 1.20 g/cm³
- Physical Appearance: Dark brown liquid

PRESENTATION

- 7 sack system, with 500 grams each

Useful life: 6 months in its original container and in dry conditions

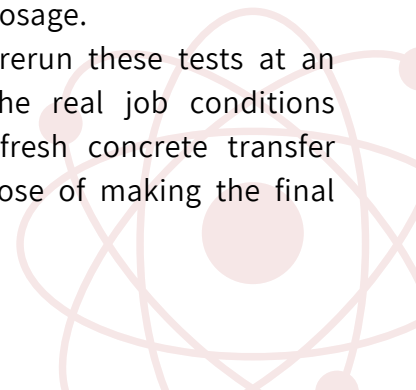
PRINCIPAL APPLICATIONS

- It can be used in the production of the following concretes:
- High-performance concretes
- Self-consolidating concretes
- Pumpable Concretes
- Permeable Concretes
- Concrete placed under water (in combination with our e5 AWA antiwashout admixture)
- High mechanical strength concretes
- Lightweight Concretes
- Conventional Concretes
- Structural Concretes
- Wet shotcrete (in combination with alkali-free accelerator) e5 Shot AFL.
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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 Halong with 80% of the mix water during concrete preparation. Add the aggregates and cement according with the established order. Once all materials, including the remaining 20% of the mix water have been added, allow mixing during one minute for each m3 of concrete at the mixing speed.

The e5 SP 2030 Hcan also be added at the job site to increase the consistency (concrete slump). The dosages may vary between 4 and up to 20mL/kg of cement.

The dosage will depend on the design of the concrete that will be produced.

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

Consult with your Element5 Integral Solutions Advisor for the preparation of durable concretes along with economic benefits.

For any questions on the use of the product, please contact the 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 .
- Always keep the product in its original container.
- In the event of any significant variation in materials (change of aggregates, cement, etc.), it is necessary to conduct the required adjustments in the established dosages.

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

When the product is outside it's stablished 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 not control the present variables in the application or handling of the product.

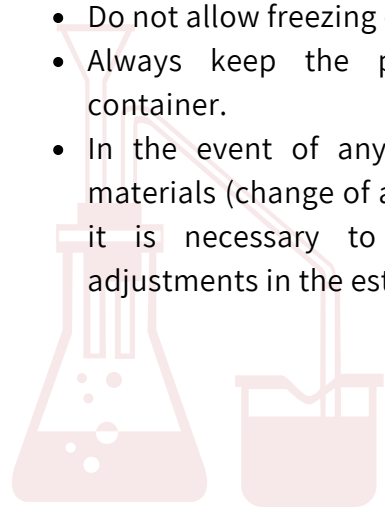
The present document only contains general recommendations.

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 product or recommendations contact our **Element5 technical support**. Visit our website where our privacy statement is available for you.

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