

e⁵
SP 2030 MC

**SUPERPLASTICIZER
ADMIXTURE**

DESCRIPTION

e⁵ SP 2030 MC is a superplasticizer, manufactured with high tech polymers. It is specially designed to interact with cement particles and, in this manner break up the flocculating effect of cement particles.

It allows water reductions as high as 20%.

It widely complies as a type F, F2 admixture according to NMX-C-255-ONNCCE, ASTM C-494 and type I ASTM C-1017.

BENEFITS

The use of **e⁵ SP 2030 MC** in concrete:

- Allows high strengths at early ages.
- It allows high flow in concrete without considerable delays in setting times.
- Increases tensile and compressive strengths.
- Improves rheologic properties.
- Reduces permeability.
- Reduces the water to binding materials ratio.
- With an adequate dosage it can retain for longer time mix consistency, compared with other admixtures of the same type.

TECHNICAL INFORMATION

- Specific gravity: 1.25
- Physical appearance: Dark brown liquid

PRESENTATION

- 18 L pail
- 200 L drum
- 1,000 L tote
- bulk

Useful life: 12 months in its original container

PRINCIPAL APPLICATIONS

e⁵ SP 2030 MC can be used in the preparation of the following concretes:

- High performance concrete.
- Selfconsolidating concrete.
- Pumpable concrete.
- high mechanical strength concrete.
- light weight concrete.
- Conventional concrete.
- Structural concrete.

Wet shotcrete in combination with our alkali free accelerator **e⁵ SHOT AFL**.

DIRECTIONS FOR USE

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

Then it is important to repeat tests at an industrial level, under the real job conditions, under which concrete will be mixed (moisture content, temperature, time to transport fresh concrete, etc.), for the purpose of making the final adjustments.

Add **e⁵ SP 2030 MC** along with 80 % of the mix water during concrete mixing. Add aggregates to cement according to the established order.

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

e⁵ SP 2030 MC can also be added at the job site to increase consistency (concrete slump).

Dosages can vary from 4 to 20 mL/kg of cement.

This will depend on the mix design of the concrete.

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

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

For any doubts or questions on the use of the product, please contact our **Element5 Technical Support Department**.

CAUTIONS

- It is not compatible with carboxylate based admixtures.
- Run tests in combination with other admixtures, to check admixture synergies, specially in air content and setting times.
- Never add admixture with aggregates or to the cement, without its prior initial hydration, as this can lower the admixture's efficiency.
- An overdosage can affect setting times and consequently affect early age mechanical strengths.
- Do not allow freezing of the product.

- In the event of important variations in the materials (change of aggregates, cement, etc.), or weather conditions, it is necessary to make the required adjustments.
- Always keep the product in its original container, away from possible contaminating agents. Do not damage product containers, as this can cause product overflows. Consult MSDS before handling.

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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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