

e⁵ MICROC

**EXTRAFAST SETTING
MICROCEMENT FOR
LAND AND ROCK
INJECTION**

DESCRIPTION

The **e⁵ MicroC-Admix** is an extrafast setting microcement with a very high fineness around 760 m²/kg. It contains a fraction of nanoparticles in its formulation, which makes it highly reactive.

BENEFITS

Its formulation allows an extrafast setting that provides the following benefits:

- It increases productivity in the tunnel injection tasks.
- Reduces digging times.
- Reduces water volume that enters tunnels.
- High durability.
- Extrafast setting that can be managed with the use of **e⁵ MicroC-Admix**
- Excelent capacity to enter fissures, pores and closed joints.

TECHNICAL INFORMATION

- Physical appearance: Gray colored dust.
- Blaine: 7,672.13 cm²/g
- flow cone ASTM C-939: 11 seconds
- Water/microcement ratio: 0.75

PRESENTATION

- 20 kg bag

Useful life: 6 months in its original closed container in a dry and ventilated area

PRINCIPAL APPLICATIONS

e⁵ MicroC can be used in:

- Soil stabilization.
- Preinjection in underground structures.
- Post injections.
- Due to its high fineness, it is ideal for rock or soil consolidation that present pores, fissures or very narrow joints.

DIRECTIONS FOR USE

Previous tests are recommended to determine the volume of mix water to make the micropaste (microcement+water) with the required consistency, for the established application. To obtain better micropaste results, it is recommended to use water/cement ratios between 0.4 and 0.8; to improve stability, and to adjust the micropaste open time it is necessary to add our plasticizer **e⁵ MicroC-Admix** at a dosage between 4 and 10 mL/kg of microcement.

For its industrial application add the required volume of water, then add **e⁵ MicroC** and allow mixing during 3 minutes. Finally add the established admixture **e⁵ MicroC-Admix** volume. Mix during 2 more minutes until achieving the desired consistency.

Preferably use a high efficiency colloidal fan. To achieve better results it is desirable to have a colloidal mixer that can achieve a minimum speed of 1500 rpm.



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 the **Element5 Technical Department**.

CAUTIONS

- It is important to not exceed mixing times, as this can cause increases in the micropaste (microcement, water and admixture) and in consequence reduce the workability open time and even accelerate setting times and result in micropaste hardening in equipment or hoses.
- if increasing the workability open time of micropaste, increasing the dosage of **e⁵ MicroC-Admix**, it is important not to exceed the recommended dosages of this admixture, as this can cause setting time delays.
- **e⁵ MicroC-Admix** has a setting time between 1 and 2 hours which allows it to start the blasting process.

- Always keep the product in its original container, away from possible contaminating agents. Do not damage containers holding the product. Consult MSDS before handling.

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 it's 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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