

# Metric Ultracem

**Extra-quick-setting and hardening mortar for instant blocking of water leaks.**

Metric Ultracem is a specific mortar to immediately block specific or diffusive water leakage on concrete structures.



1. Immediate blockage of water leaking in negative pressure
2. Developing high levels of mechanical resistance in a very short time
3. For permanent contact with water under pressure
4. Excellent plastic consistency obtained simply by mixing with hands

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## Areas of application

### → Intended use:

Blocking of specific or diffusive water leakage under negative pressure on concrete elements:

- foundations, lift shafts, basement areas and underground car parks
- foundation walls and swimming pools
- canals, drains, tanks, manifolds, siphons and water reservoirs
- bridges, viaducts, tunnels and dams

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## Instructions for use

### → Preparation of substrates

The substrate must be perfectly cured, free from hygrometric shrinkage, consistent, free of loose or easily removable debris, and free from parting compounds, oil, grease or paint.

The most suitable substrate preparing methods are sandblasting, shot peening or washing with water under pressure.

### → Preparation

Prepare Metric Ultracem by quickly mixing by hand the powder with the amount of water indicated on the packaging until a mixture with a plastic consistency is obtained. Always wear protective rubber gloves. Mixing time is about 20 seconds; as the temperature of the mixture increases, mixture must be applied immediately. Mix only the quantity required for each individual application.

### → Application

- Localised water leakage: drill a dove-tail hole at least 6-7 cm deep and as wide as necessary, apply Metric Ultracem by pressing the product in a plastic consistency into the gap and smoothing the surface by hand with circular movements until it is fully hardened.
- Diffusive water leakage by permeation from the substrate: create a network of drainage channels leading to a drain. Use Metric Ultracem to plug the perforated pipes or half pipe channels, running the water off towards the drain that should be left in place for 15 days after waterproofing with Metric Osmotic waterproofing covering.
- Water infiltration at corners (wall-floor or wall-wall) can be stopped by creating a drain between the two surfaces and appropriately rounding off the entire length of the joint using Metric Ultracem.

### → Cleaning

Use plastic containers and spreaders. Residual traces of hardened Metric Ultracem can be removed by bending the containers and the tools, to detach the product.

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## Certificates and marks



\* Émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

# Abstract

Supply and laying of an extra-quick-setting and hardening mortar, such as Metric Ultracem by Kerakoll, for the immediate blocking of water leakage under negative thrust on concrete structures.

| Technical Data compliant with Kerakoll Quality Standard |                                                                                    |           |
|---------------------------------------------------------|------------------------------------------------------------------------------------|-----------|
| Appearance                                              | powder                                                                             |           |
| Apparent volumetric mass                                | ≈ 1040 kg/m³                                                                       | UEAtc     |
| Mineralogical nature of inert material                  | silicate - carbonate                                                               |           |
| Grading                                                 | ≈ 0 – 0.3 mm                                                                       | UNI 10111 |
| Shelf life                                              | ≈ 6 months from production in the original sealed packaging, protect from humidity |           |
| Pack                                                    | bags 5 kg                                                                          |           |
| Mixing water                                            | ≈ 1,5 l / 1 5 kg bag                                                               |           |
| Density of the mixture                                  | ≈ 2060 kg/m³                                                                       | UNI 7121  |
| pH of the mixture                                       | ≥ 12                                                                               |           |
| Pot life                                                | ≈ 40 s                                                                             |           |
| Start/End of setting                                    | ≈ 60 s                                                                             | EN 196/3  |
| Temperature range for application                       | from +5 °C to +35 °C                                                               |           |
| Minimum thickness                                       | ≥ 4 cm                                                                             |           |
| Coverage                                                | ≈ 1.6 kg/dm³                                                                       |           |

Values taken at +21 °C, 60% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

| Performance                         |             |                                    |                          |
|-------------------------------------|-------------|------------------------------------|--------------------------|
| HIGH-TECH                           |             |                                    |                          |
| Performance characteristic          | Test Method | Requirements of EN 1504-3 class R4 | Performance              |
| Resistance to the pressure of water | DIN 1048    | None                               | > 7 bar (thickness 4 cm) |
| Adhesive bond after 28 days         | EN 1542     | None                               | > 1.6 N/mm²              |
| Compressive strength (N/mm²):       | EN 12190    | None                               |                          |
| - 10 min                            |             |                                    | > 10                     |
| - 24 hrs                            |             |                                    | > 20                     |
| - 28 days                           |             |                                    | > 25                     |

# Warning

- Abide by any standards and national regulations

→ store the product away from any sources of humidity and out of direct sunlight

→ use at temperatures between +5 °C and +35 °C

→ do not add binders or additives to the mixture

→ do not apply to dirty, loose and flaking surfaces

→ do not apply on gypsum, metal or wood

→ following application, protect from direct sunlight and wind
- allow the product to cure during the first 24 hours

→ if necessary, ask for the safety data sheet

→ for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - [globalservice@kerakoll.com](mailto:globalservice@kerakoll.com)



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