

Crono is a polymer-modified, fibre-reinforced, fast setting mortar for concrete floor repair. The product is designed to allow quick and reliable repair of concrete pavements. It has excellent adhesion with low shrinkage: these properties speed up the support preparation and reduce the application times of the entire job, allowing the reopening of traffic in a very short time.

Properties

Crono is a versatile cementitious mortar for quick concrete repair.

- Blend of CSA cement and Natural Cement.
- Single-component.
- For interior and exterior applications, even in wet areas.
- Installation thickness 0 – 10 cm.
- Excellent bond, without the need for a primer.
- Durable under extreme conditions (frost/thaw resistant).
- Low shrinkage.
- High strength.
- Traffic allowed after 3 hours.

Uses

- Restoration of concrete roads
- Airport runway restoration
- Parkings
- Warehouses
- Ramps and driveways

Application

Surface preparation:

The surface must be structurally sound and hardened, free from loose debris, dust, greases and previous sealers.

Before processing, wet the surface thoroughly, avoiding formation of puddles.

Mixing:

Crono should be mixed with 3,5 - 4 L of clean water depending on the desired consistency. Pour gradually **Crono** into the mixing water, then mix for at least 2 minutes till reaching a homogenous consistency free of clumps. Mix with low-speed drill, and avoid incorporating air. **Crono** can be applied by spatula or trowel.

Use cold water to mix the product ($T < 20^{\circ}\text{C}$).

To obtain a self-leveling mixture, add one sachet of **Livella** additive per each 25 kg bag.

Crono pot life is about 20 minutes at 20°C and 50% RH. Higher temperatures decrease the workability time (ex. at 28°C the pot life is about 10 minutes).

To extend the workability time, **Lento** additive is available (1

sachet per 25 kg bag at $T = 20^{\circ}\text{C}$ increases the pot life by about 20 minutes). To accelerate the setting time of the product, for example in low temperature conditions, you can use a sachet of the **Rapido** additive.

Do not add water and do not mix during the hardening.

Do not apply to frozen substrates or with the risk of freezing during the next 24 hours.

The curing time can vary with the temperature.

Do not apply if the temperature of the substrate is above 35°C . Store the material in a fresh area before use.

Technical features

Colour	Grey
Mixing water	3,5 - 4 L
Flexural strength ⁽¹⁾	3h > 3,5 MPa 28 gg > 8 MPa
Compressive strenght ⁽¹⁾	3h > 20 MPa 24 h > 30 MPa 28 gg > 50 MPa
Coverage rate	1,9 kg/m ² (per mm of thickness)
Thickness range	0 - 10 cm
Pot life	20 min at 20°C
Grain size	1 mm
Ready for heavy traffic	After 3 hours
Shelf life	At least 9 months, if stored in original sealed containers at temperature between 10°C and 25°C

⁽¹⁾ The technical date has been obtained with a dosage of 3,5 L of water per bag.

Warning

Ecobeton products must be applied only when the surface temperature is higher than 5°C , that of the environment not lower than 10°C , in any case not higher than 40°C . Do not expose the material to freezing. Read the Material Safety Data Sheet available on internet www.ecobeton.com.

Performance

 0094	Ecobeton Italy Srl Via Galileo Galilei 47, 36030 Costabissara (VI) 20 DOP n° 200915DOP-1504-3
EN 1504-3 Crono Products and systems for the protection and repair of concrete structures using PCC repair mortars	
EN 12190 EN 13412 EN 1015-17 EN 1542 EN 13687-1 EN 1770 EN 13057	Compressive strength: Class R4 Elastic Module: ≥ 20 GPa Chloride ion content: $\leq 0,05$ % Adhesive Bond: ≥ 2 MPa Thermal Compatibility (freeze-thaw): ≥ 2 MPa Thermal Expansion: $6,9 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$ Capillary Absorption: $w \leq 0,5 \text{ kg/m}^2 \times \text{h}^{0,5}$ Reaction to fire: A1 Dangerous substances: None

The above technical data has been obtained with a dosage of 3,5 litre of water per bag.
Declaration of Performance (DoP) available on the website www.ecobeton.com.

Note:

The information contained in the sheet is accurate to the best of our current knowledge. The products are of the highest quality and uniform within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied is made as to the effect of such use and no liability is assumed directly or indirectly from their use. Buyers and users are encouraged to carry out their own test prior to application.

For more details visit website:

www.ecobeton.com

e-mail for technical support:

europe@ecobeton.it

ecobETON

Ecobeton Europe srl
via G. Galilei, 47
36030 Costabissara (VI) Italy

T (+39) 0444 971893
E europe@ecobeton.it
I www.ecobeton.com