

Technical Manual

Quick-setting mortar

CrackOn 5 is a product designed to quickly seal concrete elements, cracks and holes in concrete and to stop local water seepage.

Properties

- ❖ Bonds within 5 min
- ❖ High strength
- ❖ Excellent adhesion to cement base
- ❖ Plastic consistency
- ❖ Retains water
- ❖ Resistant to low temperatures
- ❖ Does not cause corrosion of metal parts
- ❖ Resistant to sulphates and petroleum products

Areas of application

- ❖ Sewage infrastructure
- ❖ Industrial construction, hydraulic engineering, power engineering
- ❖ Vertical, horizontal, overhead surfaces
- ❖ For temporary containment of water leaks
- ❖ For use both indoors and outdoors
- ❖ For quick installation and setting of steel elements in concrete
- ❖ For filling cracks and holes

Product specifications

Compressive strength [MPa] after: 1 h / 28 days	10 / 38
Bending strength [MPa] after: 1 h / 28 days	1,5 / 5,5
100 % of reinforcement in mortar cover	Passive
Grain size (mm)	0,06 - 0,8
Swelling (%)	< 0,1
Capillary absorption (kg-m ⁻² -h-0.5)	< 0,5
Peel strength from concrete after 28 days using pull-off method [MPa].	> 1,1
Chloride ion content (%)	≤ 0,05
Pull-off adhesion according to EN 1504-6	displacement ≤ 0.6 mm at 75 kN load
Reaction to fire	Klasa A1
Mixing ratio	200 ml water / kg dry mix

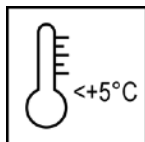
Preparatory work

- ❖ Clean the substrate of any contaminants that could impair mortar adhesion
- ❖ Forge cracks and fissures at least 10 mm in width and depth to allow the joint to be filled with mortar
- ❖ Moisten the forged area with plenty of water (remove excess water)
- ❖ Exposed steel parts are cleaned of dirt and rust.

Mixing

- ❖ Prepare the recommended amount of tap water
- ❖ Pour the prepared water into a clean container and add dry mortar
- ❖ Mix by hand for approximately 15-30 seconds until homogeneous mass is obtained
- ❖ Use the mortar directly after preparation
- ❖ It is recommended to prepare such amount of mortar that can be used within 5 minutes from mixing.

Directions for use



- ❖ Material, ambient and substrate temperatures should be between +5 °C and +30 °C.
- ❖ Lower temperatures result in a longer pot life for the mortar, whereas higher temperatures result in a shorter pot life.

Workability time of the mortar	4 min in 25 °C
	7 min in 7 °C

- ❖ Press the prepared mortar into the target area and hold until set.

Consumption

- ❖ Approximate consumption: 1.9 kg/m²
- ❖ 15 kg of dry mix yields approximately 7.5 l of fresh mortar

Storage Shelf life

- ❖ In a dry, cool and sunny place.
- ❖ Shelf life 12 months from date of manufacture in original unopened container.

Safety

- ❖ Wear safety glasses, gloves and protective clothing. Avoid contact with skin and eyes.
- ❖ In case of eye contact: rinse thoroughly with clean water and consult a doctor.
- ❖ In case of skin contact: rinse abundantly with water.

EN: Danger - H315 - Irritating to skin; H317 - May cause an allergic skin reaction; H318 - Causes serious eye damage; H335 - May cause respiratory irritation; P102 - Keep out of the reach of children; P261 - Avoid breathing dust; P280 - Wear safety glasses, face protection, protective clothing and gloves; P303+P361+P353 - IF ON SKIN (or hair): Remove/remove all contaminated clothing immediately. Rinse skin with water/shower; P305+P351+P338 - IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses if accessible and easy to remove. Rinse continuously; P333+P313 - IF skin irritation or rash occurs: Get medical advice/attention. - Contains cement. May cause respiratory irritation. Irritating to skin. Causes serious eye damage. May cause an allergic skin reaction.