

Cement Based, Capillary, Crystallized Waterproofing Material

Description

Cement based, single component, capillary Crystallized waterproofing material which is resistant to negative and positive water pressure.

Certificated to EN 1504-2 CE.

Ministry of Environment and Urban Planning Item No : 04.477 / 2

Areas of Usage

- *The indoors and outdoors of structures, vertical and horizontal applications.
- *Tunnels.
- *Water reservoirs.
- *Waterproofing foundation and face walls.

Features of Product

- *It is applied with a brush.
- * It creates insoluble crystals in capillary gaps of cement surfaces.
- *It protects the concrete and reinforcement from the corrosive effect of water.
- * It is one-component, only mixed with water.
- *It is resistant to positive and negative water pressure.

Application Procedure

Surface Preparation

Make sure the application surface is solid, bearing, dust-free, and clean. Any oil, grease, rust, paint, paraffin and curing compound residue should be removed, as they may weaken the adherence. Remove any loose pieces from the surface and open pores to increase adherence. The places with active water leakage should be filled with **waterbond**. The corners and the edges should be chamfered with the product **eile TH 70**. The surface should be saturated with water a day before the application and the product should be applied while the concrete looks wet.

Mixing

Put the material in a clean mixing bucket. Add the necessary water amount and mix with a low speed mixer for 3-5 minutes until you get a homogenous mixture. Let it rest for 3-5 minutes and mix it again for 30 seconds and it is now ready for application.

Mixture Ratio

For 20 kg of capillary: 6-7 liters of water
Mixture density: 1,9-2 gr/cm³

Application Method

The capillary is applied to the previously water-logged surface with a brush. When the first layers hardens enough (5-6 hours depending on the temperature), apply the second layer. Each layer application should be perpendicular to the previous one.

Consumption

2,0-3,0 kg/m² for two layers

Points to take into consideration

- ***eile Capillary** is appropriate for application in +5 °C +30 °C temperature conditions. If the temperature does not fit the specified values, wait until it does.
- *The material should be prepared in an amount that it can be used and consumed in 20 minutes.
- *Do not use in roof and terrace insulation.
- *Before the application of the last layer on the material, wait at least a week.
- ***eile Capillary** becomes waterproof positively in 7 days and negatively in 14 days.
- *The application surface should definitely be kept wet for 7 days.
- *Do not apply any curing on the surface with **eile Capillary** application in any way.
- *Do not apply on surfaces which are frozen, melting or under the risk of rain and frost in 24 hours.

Cleaning of Tools

The tools and equipment used during application should be cleaned with water. Once the capillary hardens, it can only be cleaned by mechanical methods.

Package

kraft sack of 20 kg

Storage

Store in cool and dry place in its unopened original package with a maximum 10-fold stacking.

Shelf Life

6 months starting from the date of production, in cool and dry place and in unopened package. The opened packages should be closed tightly and stored in proper conditions and used as soon as possible. .

Technical Specifications

Structure of the Material:	Contains Mineral Filler, Polymer Modified Additives and Special Cement.
Color	: Grey
Application Surface Temperature	: +5 °C - +30 °C
Pressurized Water Resistance	: ≥3 bars (negative)
Maturation Time	: 3-5 minutes (the time needed before applying the material after it is mixed)
Application Time	: 20 minutes (20 °C)
Pressurized Water Resistance	: ≥6 bar (positive)
Bond Resistance	: ≥ 1N/mm ² (28 days)
	Time needed for waterproofing (positive direction) 7 days (negative direction) 14 days (20 °C)
Mechanical Strength	: 1 day (20 °C)
Service Temperature	: -20 °C- +80 °C

The mode values are obtained from +23°C, 50% relative humidity conditions. High temperatures shorten, low temperatures extend the times.

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Water vapor permeability: $S_D < 3$ m Capillary water absorption: $\leq 0,1 \text{ kg.m}^2.\text{h}^{0,5}$ Bond strength: $\geq 1\text{N/mm}^2$ Fire reaction category: A 1

Safety Recommendations: Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

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