

Cement and Acrylic Based Two-Component Semi Flexible Waterproofing Material

Description

It is a cement-acrylic-based, two-component semi-elastic water insulation material containing waterproofing additives.

Certified to EN 1504-2 CE.

Areas of Usage

- *Applied in vertical and horizontal applications indoors and outdoors, from the direction of water.
- *On terraces and balconies (with the condition of covering the surface).
- *On basement walls and concrete pipes.
- *In water tanks.
- *Under screed and ceramic.
- *As a ceramic underlay water insulation material in wet areas like toilets and bathrooms.

Features of Product

- *It is certificated for use in drinking water reservoirs.
- *Forms a semi-flexible impermeable surface with excellent adhesion.
- *Applicable both horizontally and vertically.
- *Enhances the resistance of the applied structure against external factors.
- *Applied with a brush.
- *Suitable for application on moist surfaces.
- *Allows water vapor permeability.

Application Procedure

Surface Preparation

The application surface should be cleaned from any dust, oil and loose pieces that may weaken the adherence. Any damages on the surface should be fixed with **eile TH 60** or **eile TH 70**. The corners and the edges should be chamfered with **eile TH 70**. The surface should be moistened with clean water before the application, but there should not be any free water on the surface before application.

Mixing

Pour the 5kg component B (liquid) in a clean mixing bucket, and then add 20kg of component A (powder) slowly. Mix with a low-speed mixer until a homogeneous and lump-free consistency is achieved. Let it rest for 5 minutes, then mix it again for 30 seconds to prepare it for application.

Mixture Ratio

- 5 kg (Component B)
- 20 kg (Component A)

Application Method

The application should be done with a brush in 2-3 coats. Each coat should be applied perpendicular to the previous one. Allow at least 6 hours between coats.

Consumption

For a thickness of 1 mm, the consumption is 2 kg/m².

Important Points

- *It should not be applied under negative water pressure.
- *Wait at least 3 days before applying ceramic tiles on top.
- *Do not apply on wooden or metal surfaces.
- *The complete drying time is at least 48 hours.
- *Wait at least 7 days before filling water tanks.
- *The concrete surface for application should be at least 28 days old.
- *Surface should be covered if applied in direct sunlight.

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.

Packaging

- A 20 kg kraft sack
- A 5 kg plastic drum

Storage

It should be stored in its original, unopened package and between + 5 °C- + 30 °C temperatures. The product should be protected from direct sunlight.

Shelf Life

Under the specified storage conditions, the shelf life is 12 months from the date of manufacture.

Technical Specifications

Structure of the Material: Mineral filler, polymer additive and special cement (Component A)
Copolymer Acrylic Dispersion (Component B)
Color: Grey
Adhesion strength: $\geq 1\text{N/mm}^2$
Application temperature: $+5\text{ }^\circ\text{C} - +30\text{ }^\circ\text{C}$
Service temperature: $-10\text{ }^\circ\text{C} +70\text{ }^\circ\text{C}$
Maturation time: 5 minutes (the time needed before applying the material after it is mixed)
Mechanical strength within : 3 days ($20\text{ }^\circ\text{C}$)
Waterproofing within: 7 days ($20\text{ }^\circ\text{C}$)
Complete drying time: minimum 48 hours($20\text{ }^\circ\text{C}$)
Maximum application time of the mixture : 90min ($20\text{ }^\circ\text{C}$)
Maximum layers on a surface : 2 - 3 layers
Time needed before applying each layer: minimum 6 hours ($20\text{ }^\circ\text{C}$)
Consistency :Brush consistency

The above values are obtained from $+23\text{ }^\circ\text{C}$, 50% relative humidity conditions. High temperatures shorten, low temperatures extend the times.

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Water vapor permeability: $S_D < 4\text{ m}$ 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: C-s1,d0

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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