eile BITUCIM FLEXIBLE

CE

Cement and Polymer Modified Bitumen Rubber-Based Two-Component Elastic Waterproofing Material

Description
A cement and polymer-modified, highly elastic, solvent-free, bitumen rubber-based elastic waterproofing material.

Areas of Use

- For the waterproofing of foundations and retaining walls of all types of structures.
- For waterproofing in bathroom, kitchen, and toilet floors against water leaks.
- For protecting concrete against water and microorganisms coming from the ground.
- Under cement-based screeds.
- Against ground moisture in garden terraces.
- For waterproofing planters and bonding lightweight thermal insulation panels.
- Used in retaining walls and settling tanks.

Product Features

- Easy to prepare and apply.
- Has the ability to bridge shrinkage cracks.
- Can be applied to dry and slightly damp surfaces.
- Long working time.
- Solvent-free and environmentally friendly.
- Can be applied on both vertical and horizontal surfaces.
- Resistant to dilute acids, alkalis, chloride, and sulfate ions.
- Resistant to microorganisms and aggressive underground waters.

Application Procedure

Surface Preparation
The surface to be applied must be solid, load-bearing, dust-free, and clean. Any residues of oil, grease, rust, paint, curing agents, and paraffin that reduce adhesion must be thoroughly removed. Areas with active water leaks should be filled with *Waterbond*. Corners and edges should be chamfered with *eile TH 70*. The application surface should be primed.

Mixing
Component B (liquid) of *eile BITU-CIM ELASTIC* is mixed in its own container. Component A (powder) is slowly added to the container with Component B. Mix with a low-speed mixer for about 3-5 minutes until a homogeneous mixture is achieved. Allow the mixture to rest for 5 minutes, then mix again for 30 seconds before application.

Mixing Ratios
Component A: 8 kg
Component B: 22 kg

Consumption
1.5-1.6 kg/m² for 1 mm dry film thickness.

Application Method

Primer Preparation: Set aside 1 kg from the prepared A and B component mixture and add about 3 kg of water. Mix with a low-speed mixer for 3-4 minutes until a homogeneous appearance is achieved. This material should be applied as a primer coat. The primer coat should be applied to the surface evenly with a brush. After the primer coat has dried, the *eile BITU-CIM ELASTIC* A and B component mixture should be applied in 2 coats with a brush. The second coat should be applied once the first coat has dried enough not to be damaged.
For areas exposed to temporary and constant water pressure, an alkali-resistant fiberglass mesh should be placed over the entire surface after the first coat of *eile BITU-CIM ELASTIC* has been applied, and the second coat should be applied to completely cover the mesh.

Points to Consider

- Do not apply to frozen, thawing, or frost-threatened surfaces.
- The surface must be protected from rain, frost, and strong winds for 3 days after application.
- The ambient and surface temperature should be between +5°C and +30°C during application. If the temperature conditions are not within the allowed values, wait for suitable temperature conditions for application.
- No foreign materials should be added.

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- Surfaces that have not fully cured should not be exposed to water.
- The material should be applied to surfaces of the structure or structural elements in contact with water.
- This is not a UV-resistant material, so after the curing process, it should be covered with a suitable material.
- The prepared mixture should be used within 90 minutes.

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.

Limitations: **eile POMEX** Construction Chemicals, the products of **eile POMEX**-branded products, cannot be held responsible for any improper applications (misuse) due to non-adherence to the above-mentioned recommendations and application conditions. It is the responsibility of the applicator to ensure that the product is used according to its intended purpose and that the application conditions and methods are valid. **eile POMEX** Construction Chemicals does not accept any claims for compensation arising from failure to apply the products as recommended, work-related accidents, or any direct or indirect damages.

Note: eile POMEX reserves the right to make developments or revisions to the product and this technical document over time. This Technical Data Sheet invalidates any previous versions published for this product. Users must ensure they have the most up-to-date version of the technical document. If necessary, contact the company to verify the document's currency.

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Technical Specifications

Composition (Component A): Contains special polymer-modified cements.

Composition (Component B): Contains polymer-modified bitumen rubber emulsion.

Color: Brown-Black

Application Surface Temperature: +5°C to +30°C

Service Temperature: -10°C to +80°C

Pot Life: 90 minutes (at 20°C)

Curing Time: Minimum 3 days (at 20°C)

Density: 1.05-1.15 g/cm³

Time to Become Waterproof: 7 days (at 20°C)

Waterproofing Class: Class W1

Crack Bridging Ability: Class CB2

Thickness Reduction: ≤ 50%

Low Temperature Flexibility (at 0°C): No cracks

Dimensional Stability at High Temperatures (70°C): No sagging or slippage

Reaction to Fire: Class E

Typical values were obtained at +23°C and 50% relative humidity. Higher temperatures shorten the time, lower temperatures extend it.

Cleaning Tools: After application, the tools and equipment used should be cleaned with warm water. Once the material dries, it should be cleaned with an appropriate solvent.

Packaging: Available in 30 kg buckets.

- Component A: 8 kg (powder)
- Component B: 22 kg (liquid)

Storage

Store in unopened original packaging between +5°C and +30°C, protected from direct sunlight and frost.

Shelf Life

12 months from the production date under proper storage conditions.