

eile PUR 042

Single-Component, Polyurethane-Based, Elastic Waterproofing Material

Description:

It is a single-component, polyurethane-based, elastic waterproofing material that cures with air. It contains pure elastomeric hydrophobic polyurethane resin, which provides excellent resistance to UV, chemicals, mechanical stress, and thermal conditions.

Areas of Use:

- Plaster and cement panels
- Tile (undercoating)
- Bathrooms
- Roofs
- Lightweight roofs made of metal or fiber cement
- Asphalt membranes
- Main waterproofing membrane in car park waterproofing systems

Product Features:

- When applied, it forms a seamless membrane, leaving no joints or leakage possibilities.
- Once cured, it contains no toxic substances.
- It fully adheres to the surface without the need for any additional jointing processes.
- It is effective in vapor permeability: since the film breathes, no moisture accumulation occurs under the coating.

Application Procedure:

Surface Preparation:

The surfaces to be applied must be solid. The surface must have a compressive strength of 25 N/mm² and an adhesion strength of at least 1.5 N/mm² for the adhesion test. Loose, detached, or moving concrete particles, oil and paint residues, cement slurry remnants, and other factors that would affect adhesion performance must be removed. Furthermore, the surfaces to be applied should be roughened and cleaned with appropriate tools and machines. Surfaces that have been ground should be completely free of dust using industrial machines. Dust remaining in surface pores can negatively affect product performance and cause voids in the coating.

Priming:

The surface to be applied should be primed based on the surface condition with **eile PUR 710**, **eile EPX 260**, **eile EPX 021**, or **eile PUR 712 2K**.

Waterproofing Membrane:

Before use, the product should be thoroughly mixed, poured onto the primed surface, and spread using a roller or brush until the entire surface is covered. After 6-24 hours, a second layer of **eile PUR 042** should be applied. If desired, a third layer of **eile PUR 042** can be applied. The application should be done with a roller or airless spray under suitable conditions on a flat surface.

Consumption:

- First layer: 0.75-0.9 kg/m²
- Second layer: 0.75-0.9 kg/m²
- Minimum total consumption: 1.5-1.8 kg/m²

Technical Specifications:

Property	Results
Density	1.35-1.4 g/cm ³
Water Vapor Permeability	0.8 g/m ² per hour
Adhesion to Concrete	>2.5 N/mm ²
Tensile Strength	>5 N/mm ²
Elongation Percentage	500%
Hardness (Shore A Degree)	65 ± 5
Drying Time	6-8 hours (at 23°C)
Application Temperature	5°C - 35°C
Recoat Time	6-24 hours
Chemical Curing Time	7 days

Packaging:

Available in 25 kg tin buckets.

Storage:

The material should be protected from moisture and direct sunlight. Storage temperature should be between 5°C and 30°C.

Shelf Life:

It can be stored for up to 9 months in its original packaging in dry and cool conditions. Opened packages should be used promptly.

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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