

Hybrid Polyurea-Based, Two-Component, Hot-Curing Waterproofing Material

Description:

It is a two-component, solvent- and plasticizer-free hybrid polyurea system composed of 100% solid materials.

Areas of Use:

- Swimming pools, water tanks
- Treatment plants
- Underground structures
- Roofs, balconies, terraces
- Industrial flooring

Product Features:

- It is an elastic waterproofing product with high mechanical and chemical resistance.
- Adheres very well to concrete, metal, and mineral surfaces.
- Cures quickly, offering a short service time.
- Does not create air bubbles on properly prepared and primed surfaces.

Application Procedure:

Surface Preparation:

The surfaces to be applied should be dry and clean. Concrete and formwork residues should be cleaned mechanically, while oil, grease, fuel, and paraffin residues should be cleaned using chemical solvents. The application surface should be free of roughness, pits, and cracks. If necessary, the surface should be treated with grinding machines or diamond-tipped tools. After these processes, the surface should be dust-free using industrial vacuum machines. The prepared surface should be primed with a suitable primer. For very absorbent concrete surfaces, two coats of primer may be necessary. The surface tensile strength should be at least 1.5 N/mm², and the compressive strength should be a minimum of 25 N/mm². During application, the surface temperature should be at least +5°C. The application thickness should be a minimum of 1.5 mm. It is important to ensure that the material is applied evenly across the entire surface, with thickness measurements taken at regular intervals to ensure optimal application. Weak points should be rechecked, and all repairs and fine applications should be completed within 4 hours. The applied surfaces should be protected from water, dew, and dust for at least 24 hours.

Priming:

For concrete surfaces, use **eile EPX 260**, and for damp surfaces, use **eile EPX 021**. For other application surfaces, please contact our company.

Mixing:

Mixture ratio (iso/poly)	A comp : 100	B comp : 100
Process Temperature, °C	A comp : 70-80	B comp : 70-80
Process Pressure, bar	A comp: 150-20	B comp : 150-200

Application Method:

The material is applied by spraying using special application machines, according to the values specified in the above table.

Consumption:

For 1 mm thickness, 1.05±0.05 kg/m².

Technical Specifications:

Appearance Component A: liquid; honey-colored
Component B: liquid; gray

Viscosity (25°C, mPas) Component A: 750±100
Component B: 500±50

Density (25°C, g/cm³) Component A: 1,00±0,02 Component B: 1,10±0,02

Shore A Hardness 85±5

Elongation at Break (23°C, %) (ASTM D412) ≥450

Tear Resistance (23°C, N/mm²) (ASTM D638) ≥23

Tensile Strength (23°C, N/mm²) ≥13

Gel Time (seconds) 8-10

Application Thickness (mm) 2

Tack-Free Time (seconds) 17-20

Packaging:

The A component (resin) and B component (hardener) are provided in pre-measured 425 kg sets.

Storage:

It should be stored in its unopened original packaging in a cool, dry environment between +5°C and +25°C, away from direct sunlight.

Shelf Life:

When stored under the recommended conditions and in its unopened packaging, the product has a shelf life of 9 months from the production date.

Points to Consider:

- Do not add any other materials to **eile POLYUREA HP**.
- Opened packages should be used completely and not left partially used.
- Do not dilute with any thinners.
- In areas exposed to constant UV light, cover the surface with an aliphatic-based polyurethane topcoat

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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