

## Pure Polyurea-Based, Two-Component, Hot-Curing Waterproofing Material

### Description:

It is a two-component, solvent- and plasticizer-free, 100% solid pure polyurea system. It is certified according to **EN 1504-2 CE**.

### Areas of Use:

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

### 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. Such damaged or unsound surfaces should be repaired and smoothed using appropriate products. 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/mm<sup>2</sup>, and the compressive strength should be a minimum of 25 N/mm<sup>2</sup>. 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. In areas exposed to continuous UV light, covering the surface with a single coat of aliphatic-based polyurethane topcoat will provide excellent results.

### Priming:

For concrete surfaces, **eile EPX 260** should be used, and for damp surfaces, **eile EPX 021**. For all other application surfaces, please contact our company.

### Application Method:

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

### Consumption:

For 1 mm thickness: 1.05±0.05 kg/m<sup>2</sup>.

### Points to Consider:

- No other material should be added to eile POLYUREA 500.
- Opened packages should be used completely and not left partially used.
- Do not dilute with any thinners.
- In areas exposed to continuous UV light, cover the surface with an aliphatic-based polyurethane topcoat.

### Packaging:

Component A (resin) and Component B (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.

### Mixing

Mixture Ratio (by Volume)	Component A: 100 Component B: 100
Process Temperature, °C	Component A: 70-80 Component B: 70-80
Process Pressure, bar	Component A: 150-200 Component B: 150-200

## Technical Specifications

<b>Appearance</b>	Component A: liquid; honey-colored Component B: liquid; gray
<b>Viscosity (25°C, mPas)</b>	Component A: 750±100 Component B: 500±50
<b>Density (25°C, g/cm³)</b>	Component A: 1,00±0,02 Component B: 1,10±0,02
<b>Shore A Hardness</b>	95±5
<b>Elongation at Break (23°C, %) (ASTM D412)</b>	≥400
<b>Tear Resistance (23°C, N/mm²) (ASTM D638)</b>	≥50
<b>Tensile Strength (23°C, N/mm²)</b>	≥18
<b>Gel Time (seconds)</b>	3-5
<b>Application Thickness (mm)</b>	2
<b>Tack-Free Time (seconds)</b>	13-15
<b>Water Absorption</b>	$W \leq 0.1 \text{ kg/m}^2 \cdot \text{h}^{05}$
<b>Adhesion Test on Metal</b>	≥21.5 N/mm²
<b>Abrasion Resistance</b>	≤3000 mg
<b>Compressive Strength</b>	≥50 N/mm²
<b>Crack Bridging Ability</b>	Static ≥1250 µm at +23°C, Class A4 / Dynamic: Class B3, 1 atm at -20°C
<b>Water Vapor Permeability</b>	CLASS III SD>50 m
<b>Hazardous Substances</b>	5,3/E COMPLIANT

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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