

# EPU POLIFLEX 91/1

## WATERPROOFING ELASTIC POLYUREIC MEMBRANE

### Description

**POLIFLEX 91/1** is a flexible, two – component coating. Perfect for use with external multi – layer terrace, parking lots, roofs, water tanks, etc.

### Features

- Easy to apply.
- High mechanical properties.
- High resistance to hydrolysis, punching, abrasion and ageing.
- Good resistance to chemical aggressives.
- Working temperature from -40°C to +100°C in air
- Applicable from +5°C to +35°C

### Fields of application

**POLIFLEX 91/1** is used in places where high water resistance is most important. That is why **POLIFLEX 91/1** is mainly used as a membrane on roofs, terraces, parking lots, water tanks, etc. It can be applied both, on cement screeds and other surfaces properly prepared and protected with special primers. For additional protection, it is recommended to use a finishing layer of **EPU C600**.

### Application guidelines

**POLIFLEX 91/1** can be applied with trowel, brush or airless spray gun (use 0,021 – 0,025 inches nozzles, 200 bar pressures, and thin the product with at most 3% of **EPU PU1**).

#### a) Substrate Preparation

Surface must be clean, grind and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. “Over-blasting” will result in reduced coverage rates of the primer and/or subsequent topcoats. The “shotblast” pattern may show

through the last coat, known as “tracking”. The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application.

**b) Preparation of the product**

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Premix each component separately. Empty Component B in the correct mix ratio into Component A. Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

It is important to remember that this coating has a limited pot life, thus mix only the quantity that can be used within its pot life. Do not leave the mix in the container too long because it will shorten its pot life.

**c) Application**

The application can be performed in one or more layers, depending on the desired thickness and the application method.

**d) Tools cleaning**

The tools must be cleaned with **EPU PU1**.

## Handling and storage

**POLIFLEX 91/1** can be stored for 12 months in its original packaging in a dry place at a temperature between +5°C and +35°C.

Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse.

PRODUCT FOR PROFESSIONAL USE.

| TECHNICAL DATA                  |                      |                   |
|---------------------------------|----------------------|-------------------|
| COLOUR                          | RAL                  | STANDARDS         |
| POT LIFE AT 22°C                | 40 MINUT             | EN ISO 9514       |
| DENSITY                         | 1,20 +/- 0,05 kg/l   | UNI EN ISO 2811-1 |
| MIXING RATIO A/B                | 100 / 143            | -                 |
| VISCOSITY 23°C                  | 21000 +/- 4200 mPa·s | UNI EN ISO 2555   |
| TENSILE STRENGTH                | >15 MPa              | UNI EN 12311-2    |
| SHORE HARDNESS                  |                      | EN ISO 868        |
| A                               | 80                   |                   |
| D                               | 25                   |                   |
| ELONGATION AT BREAK             | 400%                 | EN 12311-2        |
| ZAWARTOŚĆ SUBSTANCJI NIELOTNYCH | 97 +/- 5%            | EN ISO 3251       |
| CZAS UTWARDZANIA ruch pieszcy   | 4h                   | 77°F / 25°C       |

Wydajność jest zmienna, efektywne pokrycie zmienia się w zależności od rodzaju podłoża i od porowatości powierzchni na którą nakładany jest produkt.