

# CERMIPROOF PU

## POLYURETHANE-BASED, ONE-COMPONENT VERY ELASTIC WATERPROOFING MATERIAL



White



Gray



- *High elasticity and mechanical strength*
- *UV and weather resistant*
- *Cured with the humidity of the air*

- *High crack bridging ability*
- *Strong adhesion to different surfaces*
- *Easily applied*

## PRODUCT INFORMATION

### WHERE TO USE

- Especially on roofs, terraces and gutters,
- In balconies, patios and parking lots,
- On the old waterproofed bitumen, EPDM, PVC, acrylic etc. surfaces that need repair,
- Concrete, wood, metal etc. UV resistant waterproofing material that can be used on different surfaces.

### GENERAL FEATURES

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>Nature of Material</b> | : Polyurethane resin with additives that provide water impermeability, elasticity and UV resistance. |
| <b>Type</b>               | : Liquefied                                                                                          |
| <b>Colour</b>             | : Gray, White                                                                                        |
| <b>Density</b>            | : $1.40 \pm 0.05 \text{ g/cm}^3$ (mixture) (ASTM D1475)                                              |
| <b>Viscosity</b>          | : 2500-4000 cP (BROOKFIELD) (ASTM D2196-86)                                                          |



### PACKAGING

- 25 kg and 5 kg buckets

### TECHNICAL CHARACTERISTICS

|                                 |                                        |
|---------------------------------|----------------------------------------|
| <b>Hardness (7 days)</b>        | : 50-60 Shore A (ASTM D2240)           |
| <b>Elongation at Break</b>      | : > 600 (ASTM D412)                    |
| <b>Adhesion to Concrete</b>     | : > 2 N/mm <sup>2</sup> (ASTM D4541)   |
| <b>Water Vapor Transmission</b> | : 0.8 gr/m <sup>2</sup> .sa (ASTM E96) |
| <b>Solids Content by Weight</b> | : %80-90                               |
| <b>Crack Bridging</b>           | : 2 mm                                 |

(\*) At 23°C and 50% RH application conditions

### STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standard
- CE
- ETA-24/0666

### CONSUMPTION

- 1.5 - 2 kg/m<sup>2</sup> (2 coats)

### STORAGE

- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.



Interior - Exterior



Surface Inspection



Application Temperature



Waterproof



Application with Brush-Roller



Terrace



UV Resistance



Very Flexible



Crack Bridging



Freeze Thaw Resistance

## APPLICATION

## APPLICATION PROCEDURE

**Application method:** Brush, roller or airless spray

**Application temperature :** +5°C - +35°C

**Number of coats:** 2-3

**Recoat time :** 10-12 hours

**Full mechanical strength:** 7 days

**Pot Life:** 3 hours

## SUBSTRATE PREPARATION

- The humidity of the application surface should be 4% and the relative humidity of the environment should not be more than 85%.
- Required Concrete Surface Hardness: R28 = 15 MPa
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Before product application, suitable primer should be applied to the surface in order to increase adhesion and it should be waited for about 4-6 hours to dry.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape will not be used, wall-floor joints should be chamfered with **CERMIREP** repair mortars before application.

| PRIMER SELECTION                                                        |                  |                   |                      |               |                    |
|-------------------------------------------------------------------------|------------------|-------------------|----------------------|---------------|--------------------|
| Surface Properties for Application                                      | CERMIPRIME NT 2C | CERMIPRIME EPR 2C | Dolgulu Epoksi Astar | CERMIPRIME PU | CERMIPRIME PU PLUS |
| Humidity Level ≤ %4                                                     | ✓                | ✓                 |                      | ✓             |                    |
| Humidity Level %4 - %8                                                  | ✓                |                   |                      |               |                    |
| Concrete Surfaces with Pitting and Irregularities                       |                  |                   | ✓                    |               |                    |
| Metal, Aluminum, Marble, Ceramic, and Galvanized Non-Absorbent Surfaces |                  |                   |                      |               | ✓                  |
| Wood                                                                    | ✓                |                   |                      |               | ✓                  |
| PVC                                                                     |                  |                   |                      | ✓             | ✓                  |
| Highly Absorbent Surfaces                                               | ✓                | ✓                 |                      | ✓             |                    |
| Bitumen-Coated Surfaces                                                 |                  |                   |                      | ✓             |                    |

## APPLICATION

- CERMIPROOF PU** is a ready-to-use waterproofing material. The product is opened and mixed with a low speed mixer until it reaches homogenous consistency.
- CERMIPROOF PU** should be applied to the surface with a brush or roller as a minimum of 2 coats.
- When applying the first coat from right to left or from

top to bottom, CERMITAPE TPE should be used at the wall-floor joints.

- The second coat should be applied 10-12 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material. Do not wait more than 24 hours between coats. In case of exceeding 24 hours, the application surface should be roughened with sandpaper.
- If the application will be made by spraying, the product can be applied after thinning with polyurethane thinner when necessary.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).



## RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- In cold weather, products should be kept at room temperature for at least 24 hours before application.
- CERMIPROOF PU** is resistant to UV rays. However, when exposed to intense UV rays, although there is no problem with its waterproofing function, it may turn yellow over time. It is recommended to apply a top coat of **PetriProof Coat PU UV** to increase color resistance and longer-term protection.
- It should not be applied against negative water pressure.
- Since the product contains solvent, the environment must be well ventilated if it is applied in closed areas.
- If the surface is not properly cleaned and primed, the applied product may peel off the surface and cause problems such as bubbles, craters, or pinholes.
- The product is suitable for light foot traffic. If there will be constant foot traffic, **CERMIPROOF PU 2C** or **CERMIPROOF HYBRID / PURE POLYUERA 2C** should be applied.

## SAFETY INSTRUCTIONS

- Since it contains solvent, it should not be inhaled and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

**Note:** Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

**CERMIX**

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