

# CERMIPROOF PURE POLYUREA 2C

**SOLVENT AND VOC-FREE, 2 COMPONENT, 100% PURE  
POLYUREA WATERPROOFING SYSTEM**



- *High elasticity and mechanical strength*
- *Strong adhesion to different surfaces*
- *Hot spray applied*
- *Fast curing (13-15 sec.)*
- *High crack bridging ability*
- *Suitable for horizontal and vertical application*

## PRODUCT INFORMATION

### WHERE TO USE

- On terraces and roofs,
- Industrial floors, parking lots, stadiums,
- Pipelines, treatment plants, water tanks,
- On roads and bridges,
- Concrete, wood, metal etc. Very fast curing waterproofing material that can be used on different surfaces.

### GENERAL FEATURES

#### Material Structure

A: Isocyanate prepolymer

B: Amine Resin

**Density** : 1.11±0.03 g/cm<sup>3</sup> (component A)

1.02±0.02 g/cm<sup>3</sup> (component B)

**Viscosity** : 700-800 MPa.s (component A)  
300-600 MPa.s (component B)

### CONSUMPTION

- 1-1.1 kg / m<sup>2</sup> / mm

### STANDARDS AND DOCUMENTS

- In accordance with EN 1504-2 standards

### PACKAGING(\*)

- 200 kg barrel (Prepolymer, Component A)
- 220 kg barrel (Polyamine, Component B)

(\*) Component quantities may vary according to production conditions.

### STORAGE

- It should be stored in closed warehouses that are free from humidity, dry and protected against external weather conditions.
- Shelf life is 6 months under suitable storage conditions.

### TECHNICAL CHARACTERISTICS

TEST	STANDARD	VALUE
Tensile strength	(ASTM D638)	≥18 MPa
Modulus	(ASTM D638)	100% elongation ≥10 MPa, 300% elongation ≥15 MPa
Elongation at break	(ASTM D638)	<350 mg
Hardness (Shore D)	(ASTM D2240)	40-45
Hardness (Shore A)	(ASTM D2240)	90-95
Tear resistance	(ASTM D 624)	≥50N / mm
Process Pressure		A: 180-200 Bar B: 180-200 Bar
Taber abrasion resistance	(EN ISO 5470-1), (H22, 1000 cycles)	<30mg
Impact resistance	(EN ISO 6272-1)	Class III
Adhesion strength	ASTM D 4541	Concrete: ≥2.5 MPa, Steel: ≥6 MPa
Crack bridging		≥ 2mm



Exterior Floor-Wall



Surface Inspection



Application Temperature



Waterproof



Terrace



SOLVENT-FREE



Freeze Thaw Resistance



Flexible

## CERMIPROOF PURE POLYUREA 2C

## APPLICATION

## APPLICATION PROCEDURE

**Application method** :Spray machine that can operate at high pressure and temperature  
**Mix Ratio By Volume:** A: 100, B: 100  
**Product Application temperature** : 70-80 °C  
**Product Application Pressure** : 1.5 Mpa  
**Concrete Moisture Content:** Max. 4% pbw  
**Gelation time:** 3-7 seconds  
**Touch Dry** : 13-15 seconds

## SUBSTRATE PREPARATION

- Moisture rate of the application surface 4% and the relative humidity of the environment should not be more than 85%.
- The application environment/surface temperature should be between +5 °C and +40 °C.
- In order to obtain a smooth surface and increase the adhesion strength, the surface should be primed.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- Increase surface adhesion prior to product application

For this purpose, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface and waited for at least 4-6 hours for it to dry.

## APPLICATION

- CERMIPROOF PURE POLYUREA 2C** with high pressure and temperature spray machine for homogeneous mixing and spraying of prepolymer and polyamine resin components should be applied.
- The machine to be applied must be able to heat the product components up to at least 70°C and spray at a ratio of 1:1 by volume (with 120-180 bar pressure).
- Throughout the application for a good performance, it is very important that the temperature and pressure are constant and regular should be kept under control.
- The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).

## RECOMMENDATIONS

- The applied surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- It should not be applied against negative water pressure.
- Opened packages should be completely finished.
- Any thinner etc. should not be added to the product.
- CERMIPROOF POLYUREA** products are 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 **CERMICOAT PU 2CA** to increase color resistance and longer-term protection.

## SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes.
- 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:** 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.



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