

CERMIPROOF HYBRID POLYUREA 2C

2 COMPONENT, SOLVENT AND VOC FREE, HYBRID POLYUREA WATERPROOFING SYSTEM



- *High elasticity and mechanical strength*
- *Hot spray applied*
- *Strong adhesion to different surfaces*

- *Fast curing (15-25 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,
- 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 based prepolymer

B: Polyamine Resin

Type : Liquid

Density : $1.11 \pm 0.03 \text{ g/cm}^3$ (component A)

$1.02 \pm 0.02 \text{ g/cm}^3$ (component B)

Viscosity : 700-800 MPa.s (component A)

300-600 MPa.s (component B)

CONSUMPTION

- 1-1.1 kg / m² / mm

STANDARDS AND DOCUMENTS

- In accordance with EN 1504-2 standards

PACKAGING

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

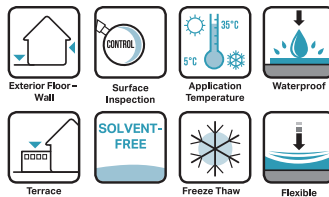
STORAGE

- 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
Tear resistance	(ASTM D-624)	≥ 25 MPa
Taber abrasion resistance	(EN ISO 5470-1), (H22, 1000 cycles)	< 250 mg
Impact Resistance	(EN ISO 6272-1)	Class III
Bond strength: Concrete	(ASTM D4541)	≥ 3 MPa, Steel: ≥ 6 MPa
Crack bridging property under normal conditions		2mm
Modulus	(ASTM D638)	100% elongation ≥ 5 MPa
Elongation at break	(ASTM D638)	350%
Hardness (Shore A)	(ASTM D2240)	90-95
Volatile component content	(ASTM D1259)	0%
Solid content	(ASTM D2697)	100%

(*) These values were obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may change due to the difference in the construction site environment.



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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: 5-10 seconds
Touch Dry: 15-25 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 HYBRID 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.

CERMIX

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Head Office
 Koramic Yapı Kimyasalları San. Tic. A.Ş.
 E-5 Karayolu Üzeri, Sıfı Mah. Hükümet Cad.
 Tuzla 34941 İstanbul / TÜRKİYE
 Phone: +90.216.423 34 33 • Fax: +90.216.423 53 63

Bozüyük Factory
 Bozüyük Organize San. Böl. 10. Cad.
 106 Ada / 5 Parsel No: 3 Bozüyük - BİLEÇİK / TÜRKİYE
 Phone: +90.228.314 63 00
 Fax: +90.228.314 63 00

Tarsus Factory
 Huzurkent Tarsus Organize Sanayi Bölgesi
 13. Cadde No: 10 Tarsus - MERSİN / TÜRKİYE
 Phone: +90.324.676 40 41-676 42 32-676 44 49
 Fax: +90.324.676 40 47