

POLIUREA PR

It is a pure aromatic polyurea-based, two components, 100% solid, waterproofing membrane that can be applied only by machine in all weather conditions as it cures very quickly.

■ ADVANTAGES

- It cures very quickly and is solvent-free.
- Creates a high crack bridge,
- Provides excellent adherence even on difficult surfaces,
- Since it is applied by machine and cures quickly, it can be opened to traffic within minutes.
- Maintains high elasticity even at low temperatures,
- Can be used on horizontal and vertical surfaces
- Since it is applied in one piece and has high flexibility, it allows a seamless application and allows a joint-free coating to be made,
- It has excellent mechanical properties; It has high extensibility, tensile, tear and abrasion resistance,
- Shows good resistance to many chemicals,
- It is permeable to vapor,
- It is resistant to hydrolysis.

■ CONSUMPTION

1.0-1.1 kg/m² for 1 mm thickness

■ WARNINGS AND RECOMMENDATIONS

Flammable, products should be kept away during application. There should be no smoking. Care should be taken to ensure constant ventilation of the application area. Protective equipment such as glasses and gloves should be used during application. In case of eye contact, wash thoroughly with clean of water. For detailed information, please request the Material Safety Data Sheet. It should be kept out of reach of children. The product should be consumed by professional users, taking into account the data in the technical information section.

All technical information stated in this product data sheet is based on laboratory tests.
Actual values may vary due to circumstances beyond our control.

■ STORAGE

Packaging	220kg + 200kg / set
Colour	A Comp. Transparent Yellow - B Comp. RAL Colors
Shelf Life	12 months from the date of production in dry and moisture-free environments, provided that the packaging is not opened or damaged. The packaging should be tightly closed when not in use. Packaging should be protected from frost and sun.

■ SCOPE OF APPLICATION

- Roofs, terraces and terrace gardens, basement and curtain insulation, reinforced concrete and sheet metal, tunnels, waste collection tanks, insulation and coating of car parks, water channels, pools and similar water tanks, waterproofing of green roofs, trapezoidal and sandwich panels It is used in waterproofing of roofs.

■ APPLICATION FEATURES

• The application surfaces must be dry, clean, bearing and solid. Any dirt, such as dust, oil, grease, paint, etc. that may reduce adherence, must be thoroughly cleaned before application. Surface temperature min. Should be +10°C The surfaces to be applied should not contain defects such as pits, breaks, pores, segregation and cracks, should not be loose and should not be dusty. Surface preparation and grinding where necessary It should be done by (shot blasting), milling, sanding or similar mechanical surface abrasion processes, and all surfaces should be cleaned of dust with industrial vacuum devices. Under all conditions, surface adherence must be above 1.5N/mm² and the moisture content must be below 4%. During application, care should be taken to ensure that the ground temperature is at least +3°C above the determined dew point.

İZERSAN YAPI MALZ.SAN VE TİC.LTD.ŞTİ.

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POLIUREA PR

■ TECHNICAL SPECIFICATIONS AND PERFORMANCE VALUES

A Component {MDI Prepolymer} Temperature 10-11 °C

B Component {Amine Resin} Temperature	67-68 °C
Hose Temperature	67-68 °C
Machine Pressure	140-180 bars

The technical specifications written above were written according to the test results performed under 23°C and 50% relative humidity conditions. Values may vary under different temperature and humidity conditions.

Preparation of the Mixture

• **Preparation of Components:** Before starting the application, component B (amine resin) should be mixed in the barrel for at least 30 minutes until a homogeneous color is obtained. Mixing must continue during application. It is important that the temperature of components A and B is between (+25)°C (+30)°C before application. The ingredients should not be diluted in any way.

• **Spray Machine Settings:** Polyurea is applied to the floors with a spraying machine operating at high pressure and temperature. Machine settings should be constantly checked during application.

After all preparations are completed, polyurea is applied to the surface by spraying in 2 layers to obtain a thickness of at least 2 mm. Control of the application thickness should be done regularly by cutting sample pieces from the ground or applying sample plates and measuring the thickness, and the minimum thickness should be reached at every point. Any thin parts or repairs should be done within 5 hours following the application. The completed surfaces should be protected from mechanical stress for at least 24 hours. Fresh surfaces should be protected from water, dew and similar external factors, dust, dirt and solvents. Dew point should be checked before and during application.

• **Mixing Ratio:** It should be constantly checked whether the mixing ratio is correct by looking at the machine pressure gauges.

Mixing Ratio	Unit	Value
A/B	By volume	100/100
	By weight	110/100

Application Notes:

- Application should not be made on wet and frozen surfaces.
- On the negative side, necessary precautions should be taken in areas where water or vapor is observed.
- Before application, ground moisture and adherence should be checked and the dew point should be determined.
- Mixing should not be done other than the specified mixing ratio.
- Mixing ratio for max. Equipment that provides a tolerance of ± 2% should be used.
- This product is applied only by experienced professionals.
- It is mandatory to take health & safety precautions in applications with machinery.
- Please review the safety data sheet for more detailed information.
- In practice, a two components, heat-generating, high-pressure, proportioning machine should be used.
- Do not apply in areas close to the operating air conditioning unit.
- Volatile bituminous materials may stain the coating.
- Use the appropriate primer according to the surface. (DryFiX DFC 100 - For damp surfaces: DryFiX DFC 105)

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Color	A Camp. Transparent Yellow - B Camp. RAL Colors	
Intensity	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	Component A: 1.11 ± 0.03 g/ml Component B: 1.022 ± 0.02 g/ml
Gelation Time		8-10 sec
Mixing Ratio (A+B)		100:100
Viscosity		Component A: 700-900 cps Component B: 300-600 cps
Hardness	ASTM D2240 / DIN 53505 / ISO R868	90-95 Shore A
Solid Matter	ASTM D 2697	%100
VOC content	ASTM D 1259	%0
Elongation at Break	ASTM D412 / EN-ISO-527	≥ 600%
Tear Resistance	ASTM D 624 /EN-ISO-527	115 N/mm
Adhesion to Concrete	ASTM D4541	>2,6 (N/mm ²)
Waiting Time Between Floors		Max 5 hour
Complete Drying		24-48 hour

NOTE: The technical specifications written above are based on the test results at 23°C and 50% relative humidity. Values may vary under different temperature and humidity conditions.

■ WARNINGS AND RECOMMENDATIONS

- Use appropriate safety equipment (mask, gloves, goggles).
- Protect your eyes and face.
- Avoid contact with eyes and skin.
- For detailed safety information, please read the Material Safety Data Sheet.
- Wash all hand tools and application equipment with clean water immediately after use. Hardened and cured materials can be mechanically cleaned.

■ SECURITY PRECAUTIONS

During use and storage, appropriate work clothes, glasses, gloves and masks should be used for occupational health and safety. Eye, mouth and skin contact should be avoided. The contacted area should be washed with plenty of water. In more dangerous cases or if the product is swallowed, a specialist doctor should be consulted immediately. Food and drink should not be brought into the application areas. It should be stored out of reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

Bu ürün bilgi foyünde belirtilen bütün teknik bilgiler laboratuvar deneylerine dayanmaktadır.
Gerçekte elde edilen değerler, bizim kontrollerimizin dışındaki, şartlar sebebiyle değişiklik gösterebilirler

■ LEGAL WARNING

İzersan Yapı Malz. San. Ve Tic. Ltd. Şti. is not responsible for any application errors that may occur if the product is used outside its intended purpose or if the above-mentioned conditions are not followed.

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