

## POLIUREA HB

It is a hybrid polyurea-based, two-component, solvent-free, waterproofing membrane that can be applied only by machine in all weather conditions as it cures very quickly.

### ■ ADVANTAGES

It cures very quickly.

- It is solvent-free.
- It forms a high crack bridge.
- It provides excellent adhesion even on difficult surfaces.
- It can be applied by machine and opened to traffic within minutes since it cures quickly.
- It maintains its high elasticity even at low temperatures.
- It allows for a seamless application and a jointless coating due to its high flexibility and being applied in one piece.
- It has excellent adhesion strength, chemical resistance and mechanical strength.
- It shows good resistance to many chemicals.
- It has a water vapor permeable structure.
- It is resistant to hydrolysis.

### ■ WARNINGS AND RECOMMENDATIONS

During application, flammable, combustible and flammable products should be kept away. Smoking should be avoided. Attention should be paid to the continuous ventilation of the application area. Protective equipment such as glasses and gloves should be used during application. In case of eye contact, rinse thoroughly with plenty of water. For detailed information, 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. POLYUREA HB (B) component contains corrosive polyamines and A component isocyanates. Before or after use or in case of a problem, follow the instructions in the MSDS form. Personal protective equipment and a full face mask with a suitable filter should be used during application. There should be sufficient air circulation in the application area. Give empty barrels to authorized institutions for the collection of hazardous waste.

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	420 kg barrel set (220 kg A + 200 kg B)
Colour	Grey
Shelf Life	1 year from date of manufacture when stored unopened and undamaged in a dry, moisture-free environment. Packages should be kept tightly closed when not in use. Packaging should be protected from frost and sun.

### ■ CONSUMPTION

1.0-1.1 kg/m<sup>2</sup> for 1 mm thickness

The application should be done at least 2 mm thick.

### ■ SCOPE OF APPLICATION

- Roofs, terraces and terrace gardens,
- Foundation and curtain waterproofing,
- On reinforced concrete and sheet metal,
- In tunnels,
- In waste collection tanks,
- In the insulation and coating of parking lots,
- In water channels,
- In pools and similar water tanks,
- In the waterproofing of parking lots,
- In the waterproofing of green roofs,
- In the protection of metals against corrosion,
- In trapezoidal and sandwich panel roofs.



## POPLIUREA HB

### ■ APPLICATION FEATURES

#### Surface Preparations

The surfaces to be applied must be dry, clean, load-bearing and solid. Any dirt such as dust, oil, grease, paint and the like that will reduce adherence must be completely cleaned before application. The surface temperature must be min. +10 °C. The surfaces to be applied must not contain any defects such as pits, fractures, pores, segregation and cracks, must not be loose and must not be dusty. Such defects must be corrected with DFR 2000 TIX before application.

Where necessary, surface preparation must be done with shot blasting, milling, sanding or similar mechanical surface abrasion processes and all surfaces must be cleaned of dust with industrial vacuum devices. Under all conditions, the surface adherence must be above 1.5 N/mm<sup>2</sup> and the humidity must be below 4%. During application, care must be taken that the ground temperature is at least +30 °C above the determined dew point. Under all conditions, the surface adherence must be above 1.5 N/mm<sup>2</sup> and the humidity must be below 4%. Care must be taken that the ground temperature is at least +30 °C above the determined dew point during application.

#### Priming:

- Dryfix DF PUR PRIMER 1K, Dryfix DF PUR PRIMER 2K for absorbent surfaces
- Dryfix DFC 100 for hard and normal surfaces

#### 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. The mixing process should continue during the application. It is important that the temperature of components A and B is between 65-75 °C before application. The components should not be diluted in any way.

\*Spray Machine Settings:

Polyurea is applied to the floors with a spray machine operating at high pressure and temperature. Machine settings should be constantly checked during the application.

Component A (MDI Prepolymer) Temperature 70-71 °C

Component B (Amine Resin) Temperature 67-68 °C

Hose Temperature 67-68 °C

Machine Pressure 140-180 bar

After all preparations are completed, polyurea is applied by spraying it on the surface in 2 layers to obtain a minimum thickness of 2 mm. The application thickness should be controlled regularly by cutting sample pieces from the ground or by applying sample plates and measuring the thickness, and the minimum thickness should be reached at every point. Thin parts or repairs should be made within 5 hours following the application. Surfaces where the application is completed 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. The dew point should be checked before and during the application.

Mixing Ratio: The correctness of the mixing ratio should be constantly checked by looking at the machine pressure gauges.

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### İZERSAN YAPI MALZ.SAN VE TİC.LTD.ŞTİ.

**Center Factory:** Egemenlik Mah. 6016/6 Sk. No:19/1 Işıkent Bornova/ İZMİR

www.dryfix.com.tr - info@izersan.com.tr

Tel&Fax: +90 850 777 05 35



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### ■ APPLICATION FEATURES

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

#### Application Notes:

- Application should not be done on wet and frozen surfaces.
- Necessary precautions should be taken in areas where water or water vapor is observed from the negative side.
- Ground moisture and adhesion should be checked before application, and dew point should be determined.
- Mixtures other than the specified mixing ratio should not be made.
- Equipment that will provide a maximum  $\pm 2\%$  tolerance for the mixing ratio should be used.
- This product should only be applied by experienced professionals.
- Health & safety precautions must be taken in machine applications.
- For more detailed information, please review the safety data sheet.
- A two-component, heat-capable, high-pressure, proportioning machine should be used in the application.
- Do not apply in areas close to a working air conditioning unit.
- Volatile bituminous materials may stain the coating.
- Use the appropriate primer according to the surface.

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### ■ TECHNICAL SPECIFICATIONS AND PERFORMANCE VALUES

Intensity	ASTM D1475 / DIN 53217 / ISO 2811, (20°C)	Component A: 1.10 g/cm <sup>3</sup> Component B: 1.00 g/cm <sup>3</sup>
Colour		Grey
Mixing Ratio (A+B)		100:100 by volume
Gelation Time		8-10 sec
Viscosity	ASTM D 2196-86 / EN ISO 3219	Component A: 800±200 mPas Component B:1000±200 mPas
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	≥ 400%
Tensile Strength	ASTM D412 / EN-ISO-527	≥ 12 N/mm <sup>2</sup>
Tear resistance	ASTM D 624 /EN-ISO-527	115 N/mm
Adhesion Strength to Concrete		> 2 N/mm <sup>2</sup>
Adhesion Strength to Metal		> 1,5 N/mm <sup>2</sup>
Waiting Time Between Floors		Max 5 hours
Complete Drying		24-48 hours

*The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures. DryFiX is not responsible for the application errors arising from use of product beyond its intended purpose of failure to comply with the forgoing application conditions and advice on the product.*

### ■ SAFETY PRECAUTIONS

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

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### ■ LEGAL WARNING

*Applications that may occur if the product is used for purposes other than its intended purpose or if the above-mentioned conditions are not complied with: from the mistakes of İzersan Yapı Malz. San. Ve Tic. Ltd. Şti. is not responsible.*

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