

DESCRIPTION

Polyurea **POLIUREQ H 100 T** is a **two-component, 100% solids** sprayable aromatic membrane that is not harmful to the environment, 100% waterproof and protects surfaces from wear and corrosion.

Due to its high adhesion to multiple substrates, it allows a secure and permanent bond with the surface, ensuring that it remains free of oxidation or corrosion with a finish that can be non-slip and in various colors.

It is an extremely durable coating due to its mechanical properties and chemical qualities. This highly resistant coating also tolerates damage caused by various acids and alkaline chemicals, as well as petroleum-based products. It has excellent performance and is bacteriologically stable, easy to clean and capable of sealing joints and corners.

FIELDS OF APPLICATION

POLIUREQ H 100 T is a 100% pure polyurea coating for the mining industry, as a useful protector of mining equipment and construction materials processing areas. Also as a waterproofing and protective finish for metal roofs. With their unmatched versatility, polyureas adhere to a wide range of substrates. The wide selection of building blocks also allows the properties of PUA coatings to be customized to meet the needs of different applications.

- Industrial and production facilities.
- Waterproofing of sports areas and stands.
- Protective coatings.
- Internal and external finishes of industrial process pipes.
- Mineral hoppers, silos, etc.
- Mud tanks and pipes.
- Loading and unloading platforms.
- Mill and crusher coatings.
- Equipment subjected to high abrasion and wear.
- pre-lacquered sheet metal covers .
- Terraces, decks and swimming pools.
- Waterproofing membrane under asphalt (withstands the usual working temperature of asphalt layers without problems).
- Suitable for waterproofing diaphragm walls with subsequent filling with earth.

TECHNICAL FEATURES

	POLIUREQ H 100 T "A"	POLIUREQ H 100 T "B"
Presentation:	<i>Two components</i>	
Color:	<i>Standard Colors: Tile-Red 3009, Gray 7012, White 9003, Blue 5012 and 5017, Green 6010, Sandgelb 1002, Black 9005, also made to measure according to RAL letter request</i>	
Specific weight g/cm³	1.12	1.12
Thread time	<i>5 seconds</i>	
Viscosity mPas (cPs)	775	850
Mixing ratio by weight	1	1
Mixing ratio by volume	1	1

(*) Data at Temperature of the components 23 °C , if it is higher the time may decrease, if the temperature is lower the curing times could increase.

Euroquímica Paints , SA

Ctr. Argentona – Dosrius , Km 2 – 08319 DOSRIUS (Barcelona) SPAIN
Phone : +34 937 974 300
<http://www.euroquimica.com> - E -mail: euroquimica@euroquimica.com

Certificado Sistema de Calidad



PREVIOUS TREATMENT OF SURFACES

Primers are recommended according to different substrates :

- For concrete, **PRIMER 300** or **PAVEX 510 TRANSPARENT**
- For ceramic tiles, **PAVEX 503**
- For galvanized steel, **HK-2-E**

Cementitious substrates: New concrete must cure for at least 28 days and must have a pull-out resistance ≥ 1.5 N/mm². Cementitious or mineral substrates should be prepared mechanically using abrasive blasting or scarifying equipment to remove the surface laitance layer and to achieve an open textured surface. Any loose particles and weak concrete should be removed, and defects such as pits and gravel nests should be left completely filled. Substrate repairs, joints, pits/gravel nests fillings and surface leveling must be carried out with the appropriate products.

Any sharp elements must be removed, for example, with sanding. Outgassing is a natural phenomenon of concrete that can produce bubbles in subsequent layers that are applied. Moisture content, air entrapment in the concrete and surface finish should be carefully checked before beginning any application work. Installing the membrane when the temperature is falling or stable can reduce outgassing. Therefore, applying the soaked layer in the afternoon or at night is generally beneficial. Prime the substrate and always use a reinforced system.

Brick: Mortar joints must be resistant and preferably cleaned.

Slate, tile, etc.: Make sure all slate/tile pieces are sturdy and securely fastened, replace any broken or missing pieces. Vitrified tiles must be sanded before priming and then treated with Polyurea. **POLIUREQ H 100 T.**

Bituminous membrane: Ensure that bituminous membranes are firmly adhered or mechanically fixed to the substrate. Bituminous membranes must not have any degraded areas. Always prime and use a reinforced system completely.

Metals: Metals must be resistant. Exposed surfaces should be primed to a shiny metal surface. Use localized reinforcement over joints and fixings.

Wooden substrate: Wooden substrates and wooden panels must be in good condition, firmly adhered or mechanically fastened.

Paints and coatings: Make sure the existing material is strong and firmly adhered. Remove any rusty layer and use localized reinforcement over the joints.

SUBSTRATE PREPARATION (Primer):

These figures are theoretical and do not include any additional material, losses due to surface porosity, surface irregularity, variations in leveling and losses, etc.

Substrate	Primer	Consumption
Cementitious substrates (wet)	HUMIFIX or PAVEX 503	≈ 250 g/ m ²
Cementitious substrates (dry)	PRIMER 300 or PAVEX 510 TRANSPARENT	≈ 250 g/ m ²
Brick and stone	PRIMER 300 or PAVEX 510 TRANSPARENT	≈ 150 g/ m ²
Tile, non-glazed ceramic	PAVEX 503	≈ 200 g/ m ²
Bituminous membrane	PAVEX 503	≈ 150 g/ m ²
Bituminous coatings	PAVEX 503	≈ 150 g/ m ²
Ferrous or galvanized metals, lead copper, aluminum, brass, or stainless steel	HK-2-E	≈ 110 g/ m ²
wooden substrates	PAVEX 503	
Paintings	Subject to adhesion and compatibility tests	

Euroquímica Paints , SA

Ctr. Argentona – Dosrius , Km 2 – 08319 DOSRIUS (Barcelona) SPAIN

Phone : +34 937 974 300

<http://www.euroquimica.com> - E -mail: euroquimica@euroquimica.com

Certificado Sistema de Calidad



APPLICATION METHOD

The system is applied with high pressure spraying equipment (14-20 MPa / 2000-3000 psi), with a fixed volumetric ratio of 1:1 and provided with a heating system in the hoses, which maintains the temperature stable during spraying. It is important that the temperature in the gun is 70 to 75°C.

The system should only be sprayed on clean, dry surfaces free of particles from other sources.

The product has optimal adhesion on rough surfaces.

It is recommended to apply a coat of primer before spraying the polyurea system **POLIUREQ H 100 T**, to guarantee the adhesion. The application of polyureas without primer on satin surfaces can present adhesion problems.

Indoor and outdoor application. If it is exterior use, a final protective layer based on Aliphatic Polyurethane **EQPOL 40 FLEX** must always be applied once the membrane is at room temperature.

Do not apply if wind speed exceeds 20 Km/h.

For roof maintenance, the minimum application thickness must be 1.4 mm (consumption of 1.7 kg/m²). For maintenance of machinery and equipment, and for pedestrian traffic, the minimum application thickness must be 2.6 mm (consumption of 2.9 kg/m²). Do not exceed 1 mm in thickness per pass.

FEATURES AND BENEFITS

- Quick reaction and curing time.
- Almost immediate start-up time.
- 100% solids product
- Excellent crack bridging properties.
- High resistance to solvents, acids and bases (pls. consult technical department).
- Excellent protection anti-corrosion.
- Global Migration below the limits established in article 12 of EU Regulation 10/2011 on plastic materials and objects intended to be in contact with food.

MECHANICAL PROPERTIES OF THE MEMBRANE:

	UNIT	VALUE
Property		
Component A		
Solids content	%	100
Density	Kg/m ³	1.11
Viscosity at 25 °C	cps .	750
Component B		
Solids content	%	100
Density	Kg/m ³	1.11
Viscosity at 25 °C	cps .	850
cured membrane		
Adhesion to concrete		Overcome cohesion
Elongation %	% UNE 53510	350
Material	ELASTOMERS	SPIKE
Hardness, Shore A		90
Hardness, Shore D		Four. Five
Tear tensile strength	N/mm UNE 53516	26
Tensile resistance	MPa UNE 53510	16.5
Abrasion resistance	Mm ³ UNE 53527	232
Temperature resistance	°C	160 hours /180°C
Recommended thickness		Minimum 600 Microns
Full curing		7 days

Euroquímica Paints , SA

Ctr. Argentona – Dosrius , Km 2 – 08319 DOSRIUS (Barcelona) SPAIN

Phone : +34 937 974 300

<http://www.euroquimica.com> - E -mail: euroquimica@euroquimica.com

Certificado Sistema de Calidad



EC DECLARATION OF CONFORMITY

Complies with the requirements of **ETE 15/0332** .
Levels of use categories according to ETAG 005:

Behavior to exterior fire	Roof (t1, t2, t3 or t4) Froof (t1, t2, t3 or t4) NPD: XPS support
Fire classification	F
Service life:	W2
Climatic zones:	S (Severe)
Usage loads:	P1 to P2 with a minimum thickness of 1.4 mm (1.7 kg/m ²) P3 with a minimum thickness of 2.6 mm (2.9 kg/m ²)
Cover slope:	S1 to S4
Minimum surface temperature:	TL2, -10°C
Maximum surface temperature:	TH4, +90°C

PRECAUTIONS

The application must be carried out with abundant supply of air or with ventilation systems prepared for this purpose.

The usual personal protective equipment must be used to avoid ingestion, inhalation or skin contact. Normal fire precautions must be taken during application.

Keep containers tightly closed after use. Do not throw waste into the drain.

Storage stability: 6 months for Comp. A and 9 months for Comp. B, in their original closed containers and in good storage conditions, at temperatures between +5°C and 30°C.

OBSERVATIONS

We guarantee the quality of our products in accordance with our general conditions of sale and delivery. Our technical advice for use, expressed verbally, in writing or through essays, is offered in accordance with our current knowledge and experience. They are simple indications that do not engage our responsibility, nor do they exempt you from the need to verify them for yourself that the products we supply correspond to the procedures and objectives sought by you, by carrying out your own controls and tests. The application and use of the products are beyond our control, and consequently, depend exclusively on your personal responsibility, and we cannot be held responsible for results other than those reflected here. Our safety recommendations do not prevent you from determining your own measures, adapted to the conditions of your facilities. We reserve the right to vary the data contained herein, without prior notice, according to technological development thereof.

POLIUREQ H 100 T Edition 17 -04-24 - Cancel the previous versions

Euroquímica Paints , SA

Ctr. Argentona – Dosrius , Km 2 – 08319 DOSRIUS (Barcelona) SPAIN

Phone : +34 937 974 300

<http://www.euroquimica.com> - E -mail: euroquimica@euroquimica.com

Certificado Sistema de Calidad

