

**Ficha Técnica**  
**Fiche Technique**  
**Technical Data Sheet**

## POLIUREQ HR

### DESCRIPTION

The polyurea system **POLIUREQ HR** is a two-component, elastic, hot spray system used mainly in the waterproofing of roofs and terraces.

### FIELDS OF APPLICATION

Polyurea -based systems are characterized by their fast curing and high-performance properties, which is why they are used in various applications, such as:

- Waterproofing of roofs and terraces.
- Rehabilitation of terraces.
- Waterproofing and encapsulation of fiber cement roofs.
- Waterproofing concrete slabs.
- Waterproofing of walkways and balconies.
- Protective coatings.

A single application can reach a thickness of 2 to 3 mm.

### TECHNICAL FEATURES

|                                | <i>Comp. A (Hardener)</i>    | <i>Comp. B (Resin)</i>       |
|--------------------------------|------------------------------|------------------------------|
| <i>Presentation:</i>           | <i>2 components</i>          |                              |
| <i>Color:</i>                  | <i>RAL and NCS</i>           |                              |
| <i>Density (25°C):</i>         | <i>1.11 g/cm<sup>3</sup></i> | <i>1.00 g/cm<sup>3</sup></i> |
| <i>Viscosity (25°C)</i>        | <i>775 mPa.s</i>             | <i>1170 mPa.s</i>            |
| <i>Solid content:</i>          | <i>100%</i>                  |                              |
| <i>Mixing ratio:</i>           | <i>1:1 parts by volume</i>   |                              |
| <i>Processing temperature:</i> | <i>Minimum 65°C</i>          |                              |
| <i>Pressure:</i>               | <i>Minimum 160 bar</i>       |                              |

### PREVIOUS TREATMENT OF SURFACES

Applications should be made to clean, dry surfaces in good condition. Remove all dust, oil, grease, loose rust or any other foreign material to ensure proper adhesion.

**Concrete:** Must be completely cured (minimum 28 days). Grout, mold release agents and salts must be removed by mechanical diamond type systems on pavements. A primer is generally required for proper adhesion. Respect repainting times.

**Metals:** The metal surface must be prepared by shot blasting to a bare metal finish. Solvent cleaning is required to remove dirt, oil and grease. If priming is required, it should be applied as soon as possible after shot blasting to avoid flash rust. If more than 8 hours have elapsed before priming, shot blasting must be repeated.

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## APPLICATION METHOD

The system is applied with a high pressure spray gun (14-20 MPa / 2000-3000 psi), with a fixed volume ratio of 1:1 and equipped with a heating system in the hoses to keep the temperature stable during spraying. It is important that the spray gun temperature is 65 to 70°C.

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

**POLIUREQ HR** must be applied at an ambient temperature above 5°C. It is recommended to adjust the components to optimum temperature for the application. Remove the Comp. B (Resin) before use to ensure homogeneity of color, reactivity and viscosity during application.

It is recommended to apply a primer before spraying the POLIUREQ HR polyurea system to ensure adhesion. Application of unprimed polyureas on satin surfaces may cause adhesion problems.

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

## MAIN FEATURES

- Quick reaction and cure time.
- Almost immediate start-up time.
- 100% solids, low emissions.
- Resistant to relative humidity and temperature
- Excellent physical and mechanical properties.
- Good adhesion to a wide range of substrates.

### MECHANICAL PROPERTIES OF THE MEMBRANE:

| TEST                       | STANDARD  | RESULTS    |
|----------------------------|-----------|------------|
| <b>Solids content</b>      |           | 100%       |
| <b>Gel time:</b>           |           | 3 seconds  |
| <b>Touch dry time:</b>     |           | 4 seconds  |
| <b>Elongation at break</b> | DIN 53504 | 350%       |
| <b>Shore Hardness (D)</b>  | DIN 53505 | Four. Five |
| <b>Tensile strength</b>    | DIN 53504 | 22.9 MPa   |
| <b>Tensile resistance</b>  | DIN 53515 | 68.7 N/mm  |

## PRECAUTIONS

Consult Safety Data Sheets before use.

The application must be carried out with an adequate supply of air or by means of a suitable ventilation system. Use personal protective equipment to avoid ingestion, inhalation or skin contact. Normal fire precautions should be observed during application.

Keep container tightly closed after use. Do not empty into drains.

Storage stability: 6 months in original sealed containers under good storage conditions.

## OBSERVATIONS

We guarantee the quality of our products in accordance with our general conditions of sale and delivery. Our technical recommendations for use, whether given orally, in writing or by means of tests, are based on our current knowledge and experience. They are simple indications which do not imply any responsibility on our part, nor do they release you from the need to verify by means of your own checks and tests, that the products supplied by us are suitable for the processes and purposes envisaged by you. The application and use of the products are beyond our control and therefore entirely your own responsibility, and we cannot be held responsible for results other than those shown 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 change the data contained herein, without prior notice, in accordance with technological developments.

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