



SYN.0303

SYNTECH POLIUREA SPRAY-SOFT

Pure polyurea elastomeric system specific for bituminous membranes

Customs Code

3909 5090

Packaging

- Barrel 225 kg [A]
- Barrel 200 kg [B]

Application

- Two-components hot sprayer

Family
Syntech

Product Lines

- Aqua
- Building
- Infratech

Components
Two-components

Type
Polyurea resins and related accessories

Functional Categories

- **Waterproofing with hot-sprayed elastomeric coatings (100% pure polyurea)**
- **Structural maintenance of dams, reservoirs, ducts and water ducts**
- **Structural maintenance of bridges and viaducts**
- **Protective, strengthening, polyurethane or epoxy coatings**

Appearance
Liquid + Liquid

General description

SYNTECH POLIUREA SPRAY-SOFT is a solid VOC Free polyurea that can only be applied by spray using suitable bimixer machines. Designed ad hoc for waterproofing of all types. SYNTECH POLIUREA SPRAY-SOFT is made up of amines and polyols and is of the aromatic type. It is characterized by a high degree of elongation and low modulus. It is a coating elastomer obtained from the reaction of an aromatic type isocyanate with an amine. Both materials are extremely fluid and have low viscosity and have the property of reacting very quickly. Specific for applications on bituminous membranes thanks to its low stiffness.

General features

Tensile strength: > 1.5 N/mm²

Colour: RAL 7040 (window grey)

Dosage

From 2 to 2.5 kg of SYNTECH POLIUREA SPRAY-SOFT for each square meter of surface to be covered.

Fields of application

SYNTECH POLIUREA SPRAY-SOFT is particularly used as waterproofing in general; directly on deteriorated and non-damaged bituminous sheaths, concrete or as a protective coating for water containment tanks even with leaks, primary containment, flooring, purification plants, EPS coating, coating and protection of metal sheets, roofs, balconies and wooden sheds and tanks .

Basic features



Density:
1.11-1.12 (A) - 1.00-1.05 (B) g/cm³



Dosage:
2.2 kg/m²

A:B

Mixing ratio:
1:1 (in volume) _



Shelf-life:
6 months



Temperature of use:
+10/ +80 °C



Use wearing protective glasses



Use wearing protective gloves



Available **colours**
Window grey

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Page: **1/3**

Technical specifications

Concrete adhesion (cutting test) UNI EN 1542:1999: > 1.5 MPa

Gel time: 10 s

Hard to touch: > 30 s

Hardness ShA UNI EN ISO 868:2005: 85 +/-5 _

Longitudinal elongation at break ISO 527-1:2012: 400 (+/- 30) %

Permeability to water vapor UNI EN 1931:2002: 0.025 _

Tools cleansing

- Thinner for resins

Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Drywall
- Plaster (gypsum)
- Wood
- Metal surfaces
- Fiber-cement
- Tiles
- Bitumen waterproofing membranes
- Floor screed
- Rock walls

Substrate preparation

All surfaces must be free of contaminants, with humidity lower than 3%; the substrate temperature must be at least 3°C above the dew point. The support must offer a mechanical grip on a solid and non-yielding substrate. For this reason, where necessary, a preparation carried out with shot peening, bush-hammering, smoothing or hydro-washing is recommended. If necessary, consult Azichem's technical staff for a correct evaluation. It is recommended to use primers from the SYNTECH POLIUREA PRIMER range, always contacting Azichem technical staff for clarification on the most suitable type to use.

Instructions for use

Pure polyurea SYNTECH POLIUREA SPRAY-SOFT requires a bimixer system capable of producing pressure over 180 bar and temperatures above 65° C. Contact the staff for clarification on the best gun to use and on the details relating to the air system . It is recommended to use primers from the SYNTECH POLIUREA PRIMER range and contact the Azichem technical staff for clarification on the most suitable type to use.

Storage and preservation

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity. Store the product at a temperature between +5°C and +35°C.

Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com. It is forbidden to dispose of the product and/or packaging in the environment.

SYNTECH POLIUREA SPRAY-SOFT is produced/distributed by



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Page: **3/3**