



SYN.0307

SYNTECH POLIUREA SPRAY - FC

Polyurea elastomeric system for contact with food and drinking water

Customs Code

3909 5090

Packaging

- Barrel 225 kg [A]
- Barrel 205 kg [B]
- Kit: 1 Barrel 225 kg [A] + 1 Barrel 205 kg [B]

Application

- Two-components hot sprayer

Family
Syntech

Product Lines

- Aqua
- Building
- Infratech

Components
Two-components

Type
Polyurethane 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

Certifications and legislations



EN 1504-2

Products and systems for the protection and repair of concrete structures - Surface protection systems for concrete

General description

SYNTECH POLIUREA SPRAY - FC is a pure aromatic polyurea specifically designed for contact with food substances and drinking water. 100% solid does not contain VOC and can only be applied by spraying using suitable bimixer machines. It is aromatic and is characterized by a high degree of elongation. It is a coating elastomer obtained from the reaction of an aromatic type isocyanate with an amine. PURE POLYUREA SUITABLE FOR FOOD CONTACT

General features

Resistance to laceration: 100 +/- 5 KN/m

Tensile strength: 20 +/- 2 Mpa

Advantages of the system:

- Safe application even on irregular substrates, vertical or with large slopes.
- Possibility to create continuous layers, free of critical protuberances created by common joints.
- Possibility to create high performance, very thin layers, with low specific weight.
- Possibility to perform maintenance and/or repairs easy and efficiently.

Dosage

From 2,00 to 2,50 kg of SYNTECH POLIUREA SPRAY - FC for each square metre of surface to be covered.

Fields of application

SYNTECH POLIUREA SPRAY - FC is particularly used as waterproofing on concrete or as a protective coating for water containment tanks, primary containment, driveways and parking lots, purification plants, EPS coating, coating and protection of sheet metal, roofs, balconies and canopies in wood, tanks and pools, seamlessly without interruptions.

Basic features



Density:

1.11-1.12 (A) - 1.00-1.05 (B) g/cm³



Dosage:

2.0 - 2.2 kg/m²

A:B

Mixing ratio:

1:1 (in volume) _



Shelf-life:

6 months



Suitable for contact with drinking water



Temperature of use:

-10 / +80 °C



Use wearing protective glasses



Use wearing protective gloves



Available colours

Transparent tending pale yellow

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Technical specifications

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

Gel time: 5 s

Hard to touch: > 30 s

Hardness UNI EN ISO 868:2005: 48 +/- 3 _

Longitudinal elongation at break ISO 527-1:2012: 370 (+/- 30) %

Permeability to water vapor: 0.025 _

Viscosity: 650 +/- 200 (A) - 400 +/- 200 (B) mPas

Working temperature: -30 / +130 °C

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
- Floor screed
- Rock walls
- EPS
- Polystyrene

Substrate preparation

All surfaces must be free of contaminants and humidity not exceeding 3%; it must offer a mechanical grip on a solid and non-yielding substrate. Where necessary we recommend a preparation carried out with shot-peening, bush-hammering, smoothing or hydro-washing. Consult the staff for a correct preparation of the substrate.

It is recommended to use Primer from the SYNTECH POLIUREA PRIMER range and contact Azichem technical personnel for clarifications on the most suitable type to use.

Instructions for use

Pure polyurea SYNTECH POLIUREA SPRAY - FC requires a bmixer system capable of producing pressure above 180 bar and temperatures above 65°C. Contact Azichem technical staff for clarification on the best gun to use and details of the system air.

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.



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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.

See the safety data sheet to view the complete data. Protect materials from humidity and water.

SYNTECH POLIUREA SPRAY - FC is produced/distributed by



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