



SYN.0304

SYNTECH POLIUREA SPRAY - N

100% pure polyurea for
waterproofing in general not
suitable for driveways

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 - N is a 100% pure polyurea of the aromatic type. It does not contain VOC and can only be applied by spraying using suitable bimixer machines which vaporise the material when hot. It is characterized by a high degree of elongation. SYNTECH POLIUREA SPRAY - N is a coating elastomer obtained from the reaction of an aromatic type isocyanate with an amine. Both materials are extremely fluid and with low viscosity and have the property of reacting very quickly.

General features

Resistance to laceration (UNI ISO 34-1:2010): 100 KN/m +/- 5
Resistance to root penetration (EN 13948:2007): Passed
Tensile strength: 20 +/- 3 Mpa
Constant performance at: -20/+120°C
Colour: RAL 7040 (grey window)

Dosage

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

Fields of application

SYNTECH POLIUREA SPRAY - N is generally used as elastic waterproofing and/or as a protective coating for concrete surfaces for water containment tanks, primary containment, flooring, purification plants, EPS coating, coating and protection of sheet metal, roofs, Eternit roofs, balconies and canopies in wood, tanks and pools.

Basic features



Density:

1.11-1.12 (A) - 1.00-1.05 (B) g/cm³



Dosage:

2.1 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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Technical specifications

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

Gel time: 10 s

Hard to touch: > 30 s

Hardness ShD UNI EN ISO 868:2005: 38 +/- 5 _

Longitudinal elongation at break ISO 527-1:2012: 450 (+/- 30) %

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

Resistance to abrasion UNI EN ISO 5470-1:2001: 10 +/- 2 mg

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

Working temperature: -30 / +130 °C

Tools cleansing

- Thinner for resins

Applicable on

- 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
- EPS

Substrate preparation

All surfaces must be free of contaminants, with humidity not exceeding 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, we recommend a preparation carried out with shot-peening, bush-hammering, smoothing or hydro-washing. If necessary, consult Azichem technical staff for a correct evaluation. It is recommended to use a primer from the SYNTECH POLIUREA PRIMER range and always contact Azichem technical personnel for clarifications on the most suitable type to use.

Instructions for use

Pure polyurea SYNTECH POLIUREA SPRAY - N requires a bimixer system capable of producing pressure above 180 bar and temperatures above 65°C. Contact Azichem technical staff for clarification on the best type of 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 - N is produced/distributed by



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