

# Syntech Poliurea Spray - N

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



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.

**CUSTOMS CODE:** 3909 5090

**COMPONENTS:** Two-components

**APPEARANCE:** Liquid + Liquid

**AVAILABLE COLORS:** Window grey

**PACKAGING AND DIMENSIONS:** Barrel 225 kg [A] - Barrel 205 kg [B] - Kit: 1 Barrel 225 kg [A] + 1 Barrel 205 kg [B]

## OBTAINED CERTIFICATIONS AND REGULATIONS



## FEATURES AND BENEFITS

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)

## 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.

## ALLOWED SUPPORTS

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

## PREPARATION OF SUPPORTS

The support on which the polyurea system must be laid must be suitable for withstanding the stresses resulting from the intended use, such as static or dynamic loads, impacts, thermo-hygrometric dilations, vibrations, etc. As regards the characteristics of the substrate (maximum humidity, cohesion, strength class, flatness, etc.) and the preparation of the surface that will accommodate the resin system, we recommend the requirements set out in chapter 5 of the UNI 10966 standard ("RESIN SYSTEMS FOR SURFACES HORIZONTAL AND VERTICAL - INSTRUCTIONS FOR DESIGN AND APPLICATION "). In any case, carefully clean and degrease the surfaces, removing any kind of dirt, paint residues or incoherent parts. The humidity of the support must be  $\leq 3\%$ . Evaluate the most convenient type of mechanical preparation (shot peening, sandblasting, hydro-washing, etc.). The surfaces must also be free from discontinuity, and possibly leveled and regularized with products from the FLOOR line or the REPAR line. In case of presence (even suspected) of humidity deriving from capillary rising from the substrate, it is recommended to apply in advance the epoxy resin for "wet substrates" Syntech Pavidamp. Tiled floors, or floors covered with pre-existing resin, must be subjected to mechanical roughening carried out with shot blasting, milling, bush hammering, etc., until the total elimination of the waterproof crust and the opacification of the surfaces. Remove dust after abrasion. It is recommended to use Primer from the SYNTECH POLIUREA PRIMER range. On particularly absorbent substrates, to avoid the formation of craters / blowholes on the surface of the freshly sprayed product, it is recommended to use primers from the SYNTECH POLIUREA PRIMER range, always contacting the Azichem technical staff for clarification on the most suitable type to use. Apply several layers of primer until the porosity is saturated and providing a light dusting with clean and dry quartz sand (0.4-0.7 mm). Never dust off the primer. Provide suitable elastic sealing systems to cover joints, fittings, cracks or fissures subject to significant movements.

## MODE OF 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.


## APPLICATION METHODS

Two-components hot sprayer


## TOOL CLEANING

Thinner for resins

## KEY FEATURES


 Density: 1.11-1.12 (A) - 1.00-1.05 (B) g/cm<sup>3</sup>


**A:B** Mixing ratio: 1:1 (in volume) \_

 Temperature of use: -10 / +80 °C

 Use wearing protective gloves

 Dosage: 2.1 kg/m<sup>2</sup>

 Shelf-life: 6 months

 Use wearing protective glasses

## TECHNICAL SPECIFICATIONS

ISO 527-1:2012

Longitudinal elongation at break **450 (+/- 30) %**

Touch hardening at 20°C > **30 s**

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

Gel time **10 s**

Working temperature **-30 / +130 °C**

UNI EN 1542:1999

Concrete adhesion (cutting test) > **1.5 MPa**

UNI EN ISO 5470-1:2001

Resistance to abrasion **10 +/- 2 mg**

ShD UNI EN ISO 868:2005

Hardness **38 +/- 5**

UNI EN 1931:2002

Permeability to water vapor **0.025**



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## CONSUMPTION

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

## STORAGE AND CONSERVATION

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.

## PHOTO GALLERY



## ADDITIONAL CONTENT



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## WARNINGS AND PRECAUTIONS

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

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