

# Syntech Poliurea Spray - FC

Polyurea elastomeric system for contact with food and drinking water



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

**CUSTOMS CODE:** 3909 5090

**COMPONENTS:** Two-components

**APPEARANCE:** Liquid + Liquid

**AVAILABLE COLORS:** Straw yellow

**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: 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.

## 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.

## ALLOWED SUPPORTS

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

## 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 - FC 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 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) \_


 Suitable for contact with drinking water

 Use wearing protective glasses

 Dosage: 2.0 - 2.2 kg/m<sup>2</sup>

 Shelf-life: 6 months

 Temperature of use: -10 / +80 °C

 Use wearing protective gloves

## TECHNICAL SPECIFICATIONS

Touch hardening at 20°C > **30 s**

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

Gel time **5 s**

Working temperature **-30 / +130 °C**

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

Permeability to water vapor **0.025**

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

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



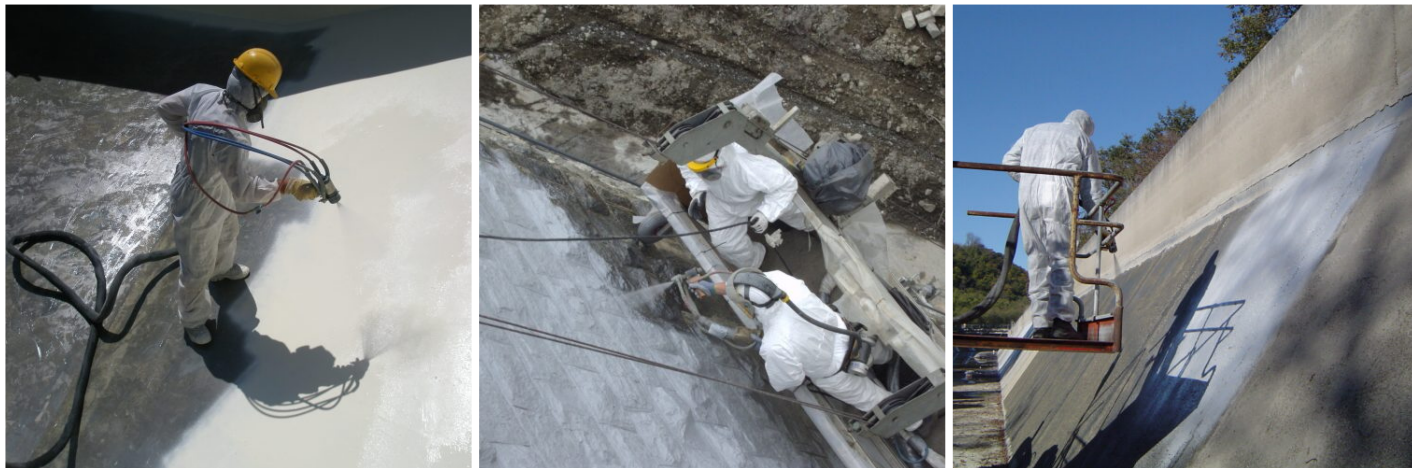
## CONSUMPTION

From 2,00 to 2,50 kg of SYNTYEC POLIUREA SPRAY - FC 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

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