



SYN.0031

## SYNTECH FLEXIPUR

Flexible two-component solvent-based polyurethane coating

### Customs Code

3909 5090

### Packaging

- Pail 7.5 kg [A]
- Pail 2.5 kg [B]
- Kit: 1 Pail 7.5 kg [A] + 1 Pail 2.5 kg [B]

### Application

- Brush
- Paint roller
- Sprayer

Family  
Syntech

Product Lines  
• Building  
• Infratech

Components  
Two-components

Type  
Epoxy and polyurethane primers, treatments and coatings

Functional Categories  
• 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 FLEXIPUR is a two-component aliphatic elastic polyurethane resin in the solvent phase, with excellent characteristics of chemical resistance and flexibility, ideal for the protective finish of both new and restored reinforced concrete structures. SYNTECH FLEXIPUR is applied by roller or spray (airless) creating a film-forming coating with high protective capacity and resistance to cracking (crack bridging ability).

## Dosage

Approximately 80-120 g / m<sup>2</sup> of SYNTECH FLEXIPUR for each coat (apply two coats).


## Fields of application


SYNTECH FLEXIPUR is ideal for creating the surface protection of both new and existing reinforced concrete structures; The final protective treatment of coatings for commercial activities, offices, hospitals and public environments in general; It can be used for UV protection of solvent-free polymeric elastic sheaths.

## Basic features


**A:B** Mixing ratio:  
3:1 \_

 Shelf-life:  
12 months

 Temperature of use:  
+10 / +35 °C

 Use wearing protective glasses


 UV-resistant

 Pot-life:  
60 min

 Solvent-based product

 To be applied in two coats

 Use wearing protective gloves

 Available colours  
White / Gray

## Technical specifications

*Determinazione della densità (EN ISO 2811): ~ 1.5 kg/l*

*Crack bridging statico (UNI EN 1062-7): 0.3 mm*

*Coefficient of permeability w (UNI EN 1062-3): 0.004 kg/(m<sup>2</sup> • h<sup>0.5</sup>)*

*Concrete adhesion (direct traction) (UNI EN 1542): 4.5 MPa*

*Dry residue (EN 480-4): 67 %*

*Permeability to CO<sub>2</sub> Sd (UNI EN 1062-6): > 260 m*

*Permeability to water vapor Sd (UNI EN ISO 7783-2012): 1.7 m*

*Reaction to fire (UNI EN 13501-19): Euroclass E \_*

*Thermal compatibility (UNI EN 13687-1): 4.5 MPa*

*Time before second coat: max 24 h*

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## Tools cleansing

- Nitro thinner

## Applicable on

- Concrete

## Instructions for use

Mix the two components in their respective packaging. Then pour component B into the container of component A. Mix everything for 3-4 minutes using a low-speed mechanical stirrer until a homogeneous and lump-free mixture is obtained. Mix the dough again for a few minutes to mix the mixture. Apply the product within 60 minutes.

SYNTECH FLEXIPUR can be applied by roller or spray (airless). With manual roller application it is advisable to foresee 2 successive coats, spaced out by a minimum time of 5 hours (20 ° C and 65% R.H.). In the case of spray application (airless) it is possible to apply the recommended thickness of 200-300 dry microns in a single coat. The product must be applied at temperatures between +10 and + 35 ° C; optimal density and workability are obtained at a temperature of + 20 ° C.

## Storage and preservation

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. Opened containers must be used immediately.



## 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](http://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](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.



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*SYNTECH FLEXIPUR is produced/distributed by*



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