

## Syntech PU Foam 30

Closed cell expanded polyurethane covering of 30 kg/m<sup>3</sup>



Syntech PU Foam 30 is an expanded polyurethane with a nominal density of 30 kg per m<sup>3</sup>; it is a closed cell foam, developed using a new generation blowing agent designed to adhere to various supports and capable of providing both excellent thermal insulation and minimizing air leaks. As part of a system, it has been designed as a closed cell, tested and evaluated for use as a composite system to provide a complete air barrier and to provide exceptional performance in reducing heat transfer, achieving incredible benefits such as minimizing the humidity transmission and air leaks. The performance of Syntech PU Foam 30 has been evaluated on iron, sheet metal, steel, glass, concrete and wood as a composite system or together as a single system.

**CUSTOMS CODE:** 3909 5090

**COMPONENTS:** Two-components

**APPEARANCE:** Liquid + Liquid

**AVAILABLE COLORS:** Neutral tending to yellow

**PACKAGING AND DIMENSIONS:** Barrel 250 kg [A] - Barrel 215 kg [B] - Kit: 1 Barrel 250 kg [A] + 1 Barrel 215 kg [B]

### FEATURES AND BENEFITS

Syntech PU Foam 30 guarantees adhesion with excellent support, giving rise to a continuous membrane, without any joints and extremely resistant: - It adapts to any geometric shape - Friend of the environment, they are inert and disposable materials. - Does not weigh down the structure - Low permeability - Better thermal insulation - Reduced thicknesses compared to other insulators - Elimination of thermal bridges - Long life - useful life exceeding 50 years. - Excellent compressive strength - Resistant to biological attack and does not favor the growth of fungi and bacteria

### FIELDS OF APPLICATION

Syntech PU Foam 30 expanded polyurethane is particularly used for: - Thermal insulation on buildings, attics, ceilings - Waterproofing following the use of top covering coating - Coating of foundations - Coating of cisterns and reservoirs - Coating of isothermal vans - Protection of pipelines and pipes - Cold room lining - Coating and protection of sheet metal.

### ALLOWED SUPPORTS

Concrete - Prefabricated concrete - Wood - Metal surfaces - Fiber-cement - Glass - Steel

### PREPARATION OF SUPPORTS

All surfaces must be free of contaminants and humidity less than 3%; it must offer a mechanical grip on a solid and non-yielding support. Where necessary, we recommend preparation using shot peening, bush hammering, sanding or hydrowashing. Consult personnel for correct preparation of the support. It is recommended to use, if necessary, primers from the Syntech family and contact the staff for clarification on the most suitable type to use.



## MODE OF USE

Syntech PU Foam 30 requires a bimixer system capable of producing pressure over 160 bar and temperatures over 60 °C, equipped with transfer pumps with a 3:1 ratio. Contact the staff for clarification on the best gun to use and details relating to the air system. The two components must be preheated to around 30 °C using heating bands. Syntech PU Foam 30 must be sprayed at pressures that fall within the range of 140 -160 bar and at temperatures that can vary from 35 to 45 °C. It is the applicator's responsibility to correctly calibrate the technical equipment taking into account the combination of nozzles relating to the gun, the length of the hoses and the technical parameters of the spray system. Syntech PU Foam 30 must not be applied in thicknesses greater than 3 cm per coat. The next step should not be carried out before 30 minutes have passed since the previous application, giving the material time to cool.




## APPLICATION METHODS



Two-components hot sprayer

## TOOL CLEANING

Thinner for resins

## KEY FEATURES

-  Density: 1.12 g/cm<sup>3</sup>
-  Temperature of use: +10/+30 °C
-  Use wearing protective gloves

-  Shelf-life: 12 months
-  Use wearing protective glasses

## TECHNICAL SPECIFICATIONS

Resistant to chemical agents

EN 14315-1:2013

30 kg/m<sup>3</sup>

EN 13501-1:2009

Fire resistance **CLASS E**

EN 14315-1:2013

Gel time **12 s**

EN 826

Compressive strength **CS(10/Y) da 150 kPa**

EN 1609:2013

Capillary absorption **0.18 kg/m<sup>2</sup>**

EN 14315-1:2013

Touch hardening at 20°C **14 s**

Yield of a two-component kit **13-15 m<sup>3</sup>**

EN 12086:2013

Permeability to water vapor **30 μ**

## CONSUMPTION

Approximately 0.350 kg of Syntech PU Foam 30 for each square meter of surface to be coated and for each centimeter of thickness to be created

## 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. Store the product at a temperature between +10°C and +30°C.



## PHOTO GALLERY



## WARNINGS AND PRECAUTIONS

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.

