

STARFOAM GREEN

TWO COMPONENT POLYURETHANE SPRAY SYSTEM FOR THERMAL INSULATION OF CIVIL AND INDUSTRIAL ROOFS COMPLIANT WITH CAM REQUIREMENTS



FEATURES

Two-component closed-cell system with medium elasticity and self-extinguishing properties.

High versatility, offers solutions to building insulation problems, has a good thermal conductivity value (λ), and improves the internal microclimate.

High compressive strength values.

Good compression creep values.

Excellent adhesion to the substrate.

Resistant to moisture.

Forms a well-adherent and continuous layer that reduces permeability and moisture formation.

Applicable on flat, sloped, or vertical surfaces.

Resistant to aging, long-lasting.

Product Environmental Certification" in accordance with UNI EN ISO 14021, CAM certificate number P361.

APPLICATION FIELDS

- This system is specifically formulated to produce a foam with an applied density between 35 and 39 kg/m³ and is suitable for use in applications requiring high compressive strength (terraces, roofs, industrial coverings, etc.).
- Thermal insulation in construction (roofs, walls, ceilings, etc.) and in industry (pipes, tanks, silos, cold storage rooms, etc.).
- Particularly suitable for insulating large surfaces, including irregularly shaped surfaces such as corrugated roofs.

STARFOAM GREEN

SUBSTRATE PREPARATION

- The surfaces to be treated must be sound, compact, free from dust and contamination by foreign substances (dirt, oil, grease, release agents, etc.).

The product can be applied directly onto surfaces made of concrete, wood, brick, membranes, or metal without the need for adhesives or mechanical fastening devices.



PRODUCT APPLICATION

STARFOAM GREEN can be applied:

- Bi-mixer pump and special gun

It is obtained by mixing the two base components, Polyol (A) and Isocyanate (B). The two components must be used in a 1:1 volume ratio. The reaction caused by the mixing is highly exothermic, allowing the foam to expand in volume and form a closed-cell structure.

STARFOAM GREEN must be sprayed by experienced operators, working in good weather conditions (wind speed <15 km/h). The surfaces must be compact, dry, and clean.

OVER APPLICATION

If the membrane is to be exposed to weather conditions, it will be necessary to apply polyurethane aliphatic finishes on the surface, depending on the requirements, such as **POLISTAR E/P**, **POLISTAR E**, or **POLISTAR E/2 N**.

The product can be overlaid with any type of polyurethane and polyurea membrane from the **STARFLEX** range.



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TECHNICAL DATA		
Color		Neutral
Thickness of the foam		1,5 – 3 cm
Free rise foam density	EN 14315-1	36 ±3 kg/m ³
Mixing ratio		1: 1 in volum
Temp min/max. components		40-50 °C
Component pressure		60-110 bar
Substrate temperature		5-40 °C
Time between layers		10 minuties
Declared thermal conductivity at 10°C.	UNI EN 14315-1	Thickness 30 mm -200 mm λ= 0,028-0,025 W/mk
Deformation under load and temperature.	EN 1605	- Load: 40 kPa - Temperature: 70 ± 1 °C - Total thickness reduction: ≤ 5,0 % - Test duration.: 168 ± 1 h
Compressive strength (10% deformation).	EN 14315-1:2013 (EN 826)	≥ 200 kPa
Water permeability	EN 1609	≤ 0,20 kg/m ²
Vapor permeability	EN 12086	≥ 70
Closed-cell content.	ISO 4590	≥ 90 %
Self-extinguishing	EN 13501-1	Classe E
Tensile strength (adhesion) perpendicular to the substrate.	EN 14315-1	> 100 kPa
Storage		Store at room temperature (15-25°C) in a sheltered and suitable environment. The storage life of the system is 3 months for the polyol and 6 months for the isocyanate in sealed packaging.

The data and specifications provided in this datasheet, based on the best practical and laboratory experiences, are to be considered indicative. Given the various usage conditions and the involvement of factors beyond MPM's control (such as substrate, environmental conditions, application techniques, etc.), the user is responsible for determining whether the product is suitable for the intended application. Our warranty obligation is limited to the quality and consistency of the finished product based on the above data, and only for technical data sheets bearing the stamp and counter-signature from the authorized personnel at our headquarters. Additionally, the customer is responsible for verifying that these values are valid for the batch of product of interest and have not been superseded or replaced by later editions or new formulations. The data provided may change at any time without prior notice from MPM.