

THERMOFLEX GUM

1. CHARACTERISTICS AND FIELDS OF USE

THERMOFLEX GUM is a high-performance waterproofing and heat-reflecting liquid coating designed to protect, insulate, and extend the life of both residential and industrial building roofs. Thanks to its innovative formulation based on acrylic-polyurethane resins and the use of lamellar fillers and highly reflective white pigments, the product represents a complete solution for energy efficiency and building protection.

THERMOFLEX GUM is a continuous, elastic, and jointless liquid membrane. Once dry, it forms a flexible and resistant film capable of adapting to micro-deformations of the substrate, preventing degradation due to thermal cycles, structural expansion, and small cracks.

Its certified cool roof properties, with a solar reflectance (SR) of 0.852 and an infrared emissivity (ϵ) of 0.859, effectively reflect incident solar energy and dissipate accumulated heat, resulting in a reduction in surface temperature of up to 20°C compared to untreated dark surfaces.

This effect translates into improved internal thermal comfort and tangible energy savings during the summer months, reducing the need for air conditioning systems.

In urban settings, the use of THERMOFLEX GUM actively contributes to mitigating the urban heat island phenomenon by reducing heat buildup on horizontal and vertical surfaces exposed to the sun. This makes it a strategic product for sustainable energy retrofitting projects and the design of low environmental impact buildings.

MAIN ADVANTAGES

- **Certified Cool Roof technology:** ideal for mitigating the urban heat island effect.
- **Passive cooling:** reduction of surface temperatures up to -20°C.
- **High solar reflectance** (SR = 0.852): reduces heat absorption.

- **High thermal emissivity** (ϵ = 0.859): promotes nighttime heat dispersion.
- **Elastic and durable waterproofing:** protects against infiltrations and UV rays.
- **Summer energy savings:** reduced use of cooling systems.
- **Multi-substrate compatibility:** concrete, fiber cement, treated membranes, primed metal.
- **Improved living comfort:** reduces thermal load in interior spaces.

2. COMPOSITION

THERMOFLEX GUM is a paste product based on an elastomeric emulsion modified with siloxane resin, selected aggregates, pigments and fillers with high solar reflectance, resistant to light and atmospheric agents, specific additives.

3. APPLICATION METHOD

ON CEMENT SUBSTRATES

Make sure the moisture level is less than 3%. Measure with a carbide hygrometer at a depth of 4 cm.

Thoroughly dust the surface and ensure it is dry and free of grease and oil. Apply a coat of DERASOL H2O diluted 1:1 with water. After at least 12 hours, apply THERMOFLEX GUM with a bristle roller in two coats, leaving 24 hours between coats.

Do not apply to substrates where rising or seeping damp has been confirmed.

4. TECHNICAL DATA

SPECIFIC WEIGHT: 1.010 kg/L +/- 3%

FILM APPEARANCE: MATT

VISCOSITY (ASTM D2196): 24,000 cps (R6, RPM 20)

DRYING TIME: Touch-dry in approximately 4 hours at 20°C with relative humidity below 60%, through-dry in approximately 48 hours at 20°C with relative humidity below 60%.

APPLICATION TEMPERATURE: Between 10°C and 30°C.

CRACK RESISTANCE (EN 1062-7)

Crack bridging ability (μ m): 1600

Result/class: A4 (> 1.25 mm)

Result/class: B2



Emotion with paint ...

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Scheda Tecnica: THERMOFLEX GUM SP 022. Rev.1 La presente scheda annulla e sostituisce le precedenti



THERMOFLEX GUM

PACKAGING: 4 and 13 liter PP containers.

RECOMMENDED MINIMUM THICKNESS: 1 mm

COVERAGE: 2 m²/liter x 1 mm thickness.

ELONGATION COEFFICIENT: 250% ± 40%

DIRECT TENSILE ADHESION: > 2.2 N/mm².

CAPILLARY ABSORPTION AND WATER

PERMEABILITY: Class III - w = 0.01 kg/(m² x h0.5)

WALKABLE 72 hours after application at 20°C

TOTAL SOLAR REFLECTANCE (SR) (ASTM E903-20)

0.861 ± 0.012

HEMISPHERICAL IR EMISSIVITY ϵ (UNI EN

15976:2011) 0.841

SOLAR REFLECTANCE INDEX (SRI) (ASTM E1980-

24)

108.5 (low wind)

107.9 (medium wind)

107.6 (high wind)

APPLICATION: brush, roller, spray

DILUTION: ready to use, max 5% with water

STORAGE: 24 months in unopened packaging,
protected from light Temperature changes.

HS-CODE: 32091000

5. SPECIFICATION ITEM

Decoration and protection of exterior surfaces with high-performance heat-reflecting elastosiloxane paint, such as THERMOFLEX GUM by Spiver s.r.l., based on an elastomeric emulsion modified with siloxane resin, selected aggregates, high solar reflectance pigments and fillers, and specific additives; after consolidating treatment with one coat of SILOSSANA PRIMER by Spiver s.r.l. diluted with 50% water, followed by the application of one coat of THERMOFLEX GUM diluted with 40% water, and the second coat of THERMOFLEX GUM diluted with 20% water in the color chosen by the D.L. Price includes materials and installation, excluding scaffolding per m². €.....

N.B. The above data may be subject to change. Spiver S.r.l. assumes no responsibility for negative results resulting from applications performed outside of its control or from factors unrelated to product quality.



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