

THERMOFLEX PLASTER COMPACT

1. CHARACTERISTICS AND FIELDS OF USE

THERMOFLEX PLASTER COMPACT is a high-performance, heat-reflecting elastoacrylic-siloxane plaster, designed for the protection, energy efficiency, and durability of facades.

This innovative, water-based formulation, ideal for residential, commercial, and industrial buildings, combines the flexibility of acrylic resins with the breathability and water-repellency typical of siloxane finishes, ensuring a stable coating that is resistant to extreme weather conditions and long-lasting.

Thanks to the presence of hollow microspheres and high solar reflectance fillers, THERMOFLEX PLASTER COMPACT reflects over 80% of incident solar energy, drastically limiting overheating of exterior surfaces. Its high infrared emissivity ($\epsilon > 0.84$) allows for rapid dispersion of accumulated heat, contributing to a reduction in surface temperature of up to 6-8°C in the summer months.

The product is highly breathable, allowing water vapor to escape from the substrate, yet water-repellent, preventing rainwater from penetrating. This hygroscopic balance ensures the building envelope is protected even in the presence of high humidity and temperature fluctuations.

The elastic structure of the coating absorbs micro-deformations in the substrates (plaster, fiber cement, concrete), preventing the formation of cracks. Furthermore, the product is enriched with broad-spectrum biocides, which effectively protect surfaces from algae and mold.

2. MAIN ADVANTAGES

- High solar reflectance ($SR = 0.821$): lowers surface temperature and reduces summer energy requirements
- High IR emissivity (hemispherical $\epsilon = 0.843$): promotes the dispersion of radiant heat
- $SRI > 103$: contributes to improving the energy performance of the building envelope
- Flexibility and elasticity: prevents microcracking and resists hot/cold cycles
- Breathable: ensures the passage of water vapor from the substrate to the exterior
- Water-repellent: prevents the absorption of rainwater
- Biological protection: prolonged action against algae and mold
- Opaque and compact appearance: ideal for modern and historic facades
- Environmental compatibility: water-based, low VOC content

3. COMPOSITION

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

4. APPLICATION METHOD

Suitable substrates are fine lime and/or cement-based mortars, cement-lime mortars, mineral or synthetic paints and coatings, when perfectly dry and cohesive. Apply a coat of SILOSSANA PRIMER diluted 100% with water; after 12 hours, apply a base coat of THERMOFLEX PAINT diluted with 40% water. After another 12 hours, apply a coat of THERMOFLEX PLASTER COMPACT with a metal float and immediately finish with a plastic float.

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

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THERMOFLEX PLASTER COMPACT

5. TECHNICAL DATA

SPECIFIC WEIGHT: 1.800 kg/L +/- 3%

FILM APPEARANCE: MATT

VISCOSITY (ASTM D2196): 40,000 cps (R7, RPM 30)

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 5°C and 30°C

COVERAGE: 1.9-2.2 kg/m²

WATER VAPOR PERMEABILITY: Class V1, sd < 0.14 m (EN 1062-1)

WATER ABSORPTION: W24 = 0.02 kg/m h0.5 (DIN 52013)

FIRE RESISTANCE: Euroclass A2 s1 d0 (EN 13501-1)

CRACK RESISTANCE (EN 1062-7) Crack bridging ability (µm): 1600 Result/class: A4 (> 1.25 mm)
Result/class: B2

TOTAL SOLAR REFLECTANCE (SR) (ASTM E903-20) 0.761 ± 0.011 HEMISPHERICAL IR EMISSIVITY ε (UNI EN 15976:2011) 0.878

SOLAR REFLECTANCE INDEX (SRI) (ASTM E1980-24):

93.4 (low wind)

94.0 (medium wind)

94.4 (high wind)

PACKAGING: 20 kg PP containers. **APPLICATION:** Metal trowel and plastic trowel.

DILUTION: Ready to use.

STORAGE: 24 months in unopened packaging, protected from temperature changes.
HS-CODE: 32091000

6. SPECIFICATION ITEM

Decorating and protecting exterior surfaces with a high-performance, heat-reflecting, elastoacrylic-siloxane plaster, such as THERMOFLEX PLASTER COMPACT by Spiver s.r.l., based on an elastomeric emulsion modified with siloxane resin, pigments and fillers with high solar reflectivity, resistant to light and weathering, and specific additives. After a consolidating treatment with a coat of SILOSSANA PRIMER by Spiver s.r.l. diluted with 100% water, followed by a coat of THERMOFLEX PAINT diluted with 40% water, wait another 12 hours and apply a coat of THERMOFLEX PLASTER COMPACT with a metal trowel, followed immediately by finishing with a plastic trowel.

Do not apply. Price includes materials and installation, excluding scaffolding per square meter. €.....

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 its control or from factors unrelated to product quality.

SPIVER s.r.l.

Contrada Bobbure, S.S. 122

ARTHE
decorative line

Emotion with paint ...

Scheda Tecnica: THERMOFLEX PLASTER COMPACT 022, REV.1 La presente scheda annuncia e sostituisce le precedenti