

THERMOFLEX PERLA GRAINY

1. CHARACTERISTICS AND FIELDS OF USE

THERMOFLEX PERLA GRAINY is an innovative heat-reflecting decorative coating for exteriors, designed to combine high surface protection, energy efficiency of the building envelope, and exclusive aesthetics.

Its unique elastomeric-siloxane formulation, enriched with special high-reflectance solar fillers, functional heat-reflecting microspheres, high-quality pearlescent micas, and selected microsands, creates decorative surfaces characterized by refined pearlescent reflections and delicate chiaroscuro effects, enhanced by a pleasant, textured, sandblasted effect.

THERMOFLEX PERLA GRAINY was developed to meet the modern needs of contemporary architecture, offering a decorative finish highly resistant to atmospheric agents, UV rays, smog, and temperature changes, while maintaining color stability, surface compactness, and high aesthetic value over time.

Thanks to its high solar reflectance, the product helps significantly reduce overheating of facades exposed to direct sunlight, limiting heat absorption and improving indoor thermal and hygrometric comfort.

The high thermal emissivity also promotes rapid dissipation of heat accumulated on surfaces, helping to reduce thermal stress on the building envelope.

The coating is both highly breathable and highly water-repellent: the substrate is protected from rainwater penetration while maintaining the natural diffusion of water vapor outward.

THERMOFLEX PERLA GRAINY contains specific biological protective agents that effectively combat the growth of mold, algae, and microorganisms responsible for the aesthetic degradation of facades.

Ideal for:

- luxury residential buildings;
- modern villas and architectural complexes;
- hotels and hospitality facilities;
- commercial and office buildings;
- aesthetic and energy-efficient facade renovations;
- external thermal insulation systems;
- High-performance contemporary architecture.

MAIN BENEFITS

- Exclusive pearlescent sandblasted effect with a high aesthetic impact;
- Bright and textured decorative surface;
- Certified high solar reflectance;

- Solar Reflectance Index (SRI) up to 105.3;
- Reduction of overheating of exterior surfaces;
- High thermal emissivity;
- Highly energy-efficient "Cool Wall" surface;
- Reduction of thermal stress on facades;
- Increased durability of the exterior coating;
- Excellent elasticity and resistance to micro-cracking;
- Highly breathable substrate;
- Excellent water repellency;
- Resistance to atmospheric agents and UV rays;
- Protection against mold, algae, and smog;
- Excellent color stability over time;
- High workability and ease of application;
- Water-based product with low VOC content.

2. COMPOSITION

Decorative paste coating based on a modified acrylic-siloxane elastomeric emulsion, heat-reflecting hollow microspheres, natural and synthetic micas with a pearlescent effect, selected microsands, mineral fillers with controlled grain size, organic and inorganic pigments highly resistant to light and atmospheric agents, rheological additives, water repellents, biological protectors and special functional additives.

3. HOW TO APPLY

Substrate Preparation

Substrates must be perfectly cured, dry, sound, and free of dust, dirt, saline efflorescence, or loose particles.

Suitable substrates include:

- lime/cement-based plasters;
- fine mortars;
- thermal systems;
- old paint or well-adhered synthetic coatings;
- absorbent mineral substrates.

For chalking or highly absorbent substrates, first apply a coat of SILOSSANA PRIMER diluted 100% with water.

Application

After the substrate is completely dry, apply THERMOFLEX PERLA GRAINY with SPALTER DECORÀ, distributing the product evenly.

Use irregular movements and crisscross, vertical, horizontal, or oblique brush strokes depending on the desired aesthetic effect.

After the first coat is completely dry, apply a second coat using the same technique until perfectly uniform in color



Emotion with paint ...

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

THERMOFLEX PERLA GRAINY

and the unique pearlescent sandblasted effect is achieved.

The final effect will be evident once dry, highlighting refined pearlescent reflections and delicate chiaroscuro effects that enhance the decorative texture of the surface.

Do not apply:

- at temperatures below +5°C or above +30°C;
- in the presence of rain, heavy fog, or strong winds;
- on surfaces affected by rising damp or active infiltration.

Do not apply on surfaces where the presence of rising damp or infiltration has been confirmed.

4. TECHNICAL DATA

SPECIFIC WEIGHT: 1.189 kg/L +/- 5%

FILM APPEARANCE: Whitish pearl

VISCOSITY (ASTM D2196): 48,000 cps +/- 5% (R7, RPM 10)

DRYING TIME: Touch-drying in approximately 4 hours at 20°C with relative humidity less than 60%, through-drying in approximately 48 hours at 20°C with relative humidity less than 60%. **APPLICATION**

TEMPERATURE: Between 5°C and 30°C.

PACKAGING: 10 L PP containers.

COVERAGE: 0.30 – 0.40 L/m² (two coats)

WATER VAPOR PERMEABILITY: sd = 0.15 m (UNI 8202/43).

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

FIRE REACTION: Not classified according to UNI EN 13501-1. Coating applied in thin layers on generally non-combustible substrates.

TOTAL SOLAR REFLECTANCE (SR) (ASTM E903-20) 0.844 ± 0.053

HEMISPHERICAL IR EMISSIVITY ε (UNI EN 15976:2011) 0.843

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

105.7 (low wind)

105.4 (medium wind)

105.3 (high wind)

APPLICATION: Stainless steel trowel

DILUTION: Ready to use, max 5% with water

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

HS-CODE: 32091000

5. SPECIFICATION ITEM

Decoration and protection of exterior surfaces by applying a heat-reflecting decorative coating with a pearlescent sandblast effect, such as THERMOFLEX PERLA GRAINY by SPIVER S.r.l., formulated with a modified acrylic-siloxane elastomeric emulsion, heat-reflecting microspheres, natural and synthetic pearlescent micas, selected microsands, selected mineral fillers, UV- and weather-resistant pigments, specific additives, biological and water-repellent protective agents.

The product must guarantee high certified solar reflectance with a SR value of 0.851 and a Solar Reflectance Index (SRI) of up to 106.3, determined by laboratory tests according to ASTM E903-20 and ASTM E1980-24.

The coating must also have high thermal emissivity, excellent breathability, strong water repellency, high elasticity, and weather resistance.

The application must be carried out on properly prepared substrates treated with a suitable primer, using a special SPALTER DECORA brush, applying two coats of product until a pearlescent, sandblasted, decorative finish is achieved, offering high aesthetic value and high energy efficiency.

Price includes materials and installation, excluding scaffolding per m² €.....

The application must be carried out on properly prepared substrates treated with a suitable primer, using a stainless steel trowel until a compact, luminous, and silky, decorative finish is achieved, offering high aesthetic value.

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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