



Silatex® Reflect

Reflective, elastomeric waterproofing coating for exterior walls and facades



Description

Reflective, elastomeric acrylic waterproofing coating for exterior walls and facades, with high solar reflectance and thermal emittance properties. Significantly reduces the temperature of the exterior surface exposed to the sun, contributing to considerable energy saving, especially during summertime.

Fields of application

External walls and facades of new or existing buildings, on substrates such as concrete, plaster, bricks, cement boards, etc.

The above surfaces require appropriate preparation and priming prior to the application of Silatex® Reflect.



Packing

10L & 3L

Colour

WHITE

**Also available in D base*

Properties - Advantages

- High reflectance and thermal emittance properties
- Reduces the temperature of the exterior surface exposed to the sun, offering cool ambient conditions
- Very high dirt pick-up resistance, easy to wash
- Retains its whiteness and its initial high energy saving properties
- Covers capillary cracks, offering excellent protection against moisture
- Does not get tacky even under extremely high temperatures
- Long-lasting resistance to UV radiation & adverse weather conditions
- Remains elastic in a broad range of temperatures from -40°C to +80°C
- Water vapour permeable, allows the walls to "breathe"
- Protects the concrete from carbonation and aggressive atmospheric influences in urban and seaside areas
- Promotes a self-cleaning effect on the treated surfaces
- Eco-friendly & user-friendly (water-based, one-component)

Certificates – Test reports

- CE Certification acc. to EN 1504-2
Certificate of Conformity No. 1922-CPR-0386
- Certified cool material by the University of Athens
Evaluation of the optical properties conducted by the National and Kapodistrian University of Athens – Physics Dept.
- Energy studies conducted by the National and Kapodistrian University of Athens - Physics Dept.
 - *Calculation of the energy saving achieved in residencies with the combined use of **Neorooftm** and **Silatextm Reflect** of **NEOTEX®***
 - *Calculation of the energy saving achieved in residencies with the combined use of **Neorooftm**, **Silatextm Reflect** and **N-Thermon® 9mm** of **NEOTEX®***
- Test report by the external independent quality control laboratory Geoterra (No. 2019-300)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE



Certified by:



Technical characteristics

Density (EN ISO 2811-1)	1,40kg/L (±0,1)
Gloss (60°)	<10
Elongation at break (ASTM D412)	150% (±20)
Tensile strength at break (ASTM D412)	3MPa (±0,3)
Adhesion strength (EN 1542)	>1,5N/mm ²
Hardness Shore A (ASTM D2240)	69
Liquid water permeability (EN 1062-3)	<0,1kg/m ² h ^{0,5}
Permeability to CO ₂ – Diffusion-equivalent air-layer thickness Sd (EN 1062-6)	>50m
Water vapour permeability – Diffusion-equivalent air-layer thickness Sd (EN ISO 7783)	0,7m (Class I – permeable)
Accelerated UV ageing in the presence of moisture (UVB-313, 4h UV @60°C + 4h condensation @50°C, ASTM G154)	Pass (>1000 hours)
Service temperature	-40°C min. / +80°C max.
Total Reflectance SR% (ASTM E903-12, ASTM G159-98)	88% (white)
Infrared Emittance (ASTM E408-71)	0,86 (white)
Solar Reflectance Index SRI (ASTM E1980-01)	111 (white)
Coverage: 10-11m²/L per layer	

Application conditions

Substrate moisture content	<6%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+12°C min. / +40°C max.

Curing details

Drying time (+25°C, RH 50%)	3 hours (initially)
Dry to recoat (+25°C, RH 50%)	24 hours
Full hardening	~ 7 days
<i>* Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i>	

Appropriate primers on usual substrates

Substrate	Primer	Description - Details
Concrete, plaster	Revinex® (diluted with water 1:4)	Water-based primer of high adhesion on cementitious substrates
	Silatex® Primer	Acrylic solvent-based primer, with high penetrating ability
	Vinyfix® Primer	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates

Instructions for use

Substrate preparation

The surface must be stable, clean, dry, protected from rising moisture and free of dust, oil, grease and loose materials. Any poorly adhering materials and older coatings should be removed, and the surface should be thoroughly cleaned mechanically or chemically. Depending on the substrate, appropriate mechanical preparation may be required, to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be sufficiently flat, smooth, and continuous (i.e., without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. by proper puttying).

Priming

Prior to the application of **Silatex® Reflect**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply **Revinex®** diluted with water in a ratio **Revinex®**: water - 1:4 or the solvent-based primers **Silatex® Primer** or **Vinyfix® Primer**.




Application

Following the priming of the surface, **Silatex® Reflect** is applied, after thorough stirring, in at least two layers by roller, brush or airless spray. The first layer is diluted 5% with clean water, while the second layer (and every subsequent one) follows after app. 24 hours, applied undiluted.

Special notes

- **Silatex® Reflect** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the application or the curing period of the product
- Substrate temperature during application and curing must be at least 3°C above dew point to avoid condensation issues
- Under conditions with no sunshine, the curing of the membrane takes more time and the surface remains tacky for longer time periods
- Applicable only on exterior surfaces exposed to UV radiation (not in interior/contained spaces). Not intended for application on surfaces that are not exposed to UV.

Appearance	Viscous liquid
Colours	White - Available in other shades upon request May be tinted with water-based emulsion colourants. Also available in D base offering versatility for the creation of the requested shade
Packing	10L and 3L in plastic pails
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AcWB: 40g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <40g/l
UFI code	F4D0-M0KD-200X-36X6
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

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1922-CPR-0386 DoP No.: 4950-50 EN 1504-2 Silatex[®] Reflect Surface protection products Coating	
Water vapour permeability	Class I
Adhesion strength	≥1.5N/mm ²
Capillary absorption and permeability to water	W<0.1Kg/m ² h ^{0.5}
Permeability to CO ₂	S _D >50m
Reaction to fire	Euroclass F
Dangerous substances	Complies with 5.3

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX[®] SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX[®] SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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