NEOTEX®
CONSTRUCTION CHEMICALS SINCE 1959

NEOTEX SA GENERAL COMMERCIAL REGISTRY 272201000

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Product: Silatex® Reflect

Cool properties & Energy Saving

Manufacturer confirmation

We hereby confirm that the elastomeric acrylic waterproofing coating **Silatex® Reflect** (manufactured by **NEOTEX® S.A.** in Mandra Attikis, Greece) presents very high solar reflectance and thermal emittance properties, when applied in its white colour shade, and therefore significantly reduces the temperature of the exterior surface exposed to the sun, contributing to considerable energy saving, especially during summertime or in hot weather cliamtes. Based on the relevant certification issued by the *Department of Physics of the University of Athens*, its respective figures of **Cool properties** are stated in the table below.

Silatex® Reflect ***Cool Properties***	
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)

With respect to the **Energy Saving** report conducted by the Department of Physics of the *University of Athens*, in the table below the findings are stated, regarding the total KWh reduction, CO_2 emission reduction and Return on Investment. The figures refer to the application of the cool elastomeric waterproofing materials **Neoroof®** and **Silatex® Reflect** on the flat roof and facades respectively of a residential building in Heraklion, Crete, Greece. The total surface area of the building's plan is 76,5 m^2.

Silatex® Reflect & Neoroof® ***Energy Saving Analysis***	
KWh REDUCTION - CO_2 EMISSION REDUCTION RETURN ON INVESTMENT	
Total Surface Area of Roof	76,5 m^2
Total KWh Reduction for Cooling	2.089,22 KWh/year
CO_2 Emission Reduction	1.775,84 Kg/year
Return on Investment	1 year & 5 months

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With respect to the typical **surface temperature reduction** and based on a series of relevant internal testing and measurements, performed by the **NEOTEX®** R&D Dept.:

- An uncoated cement surface can reach +60-80°C under direct summer sunlight, depending on factors like solar radiation, ambient temperature, and exposure time.
- The **Silatex® Reflect** white reflective elastomeric coating *can lower the surface temperature by 20-30°C* compared to uncoated cement.

Silatex® Reflect *Surface Temperature Reduction*	
Example Scenario (Hot Summer Day, ~35-40°C Ambient Temp)	
Uncoated cement	65-80°C
Silatex® Reflect white (applied on surface)	35-50°C
Temperature reduction	***20-30°C***

Silatex® Reflect presents exceptionally high initial cool properties in its white shade, as well as excellent dirt pick-up resistance, while it does not get tacky even under extremely high temperatures. As a result of the above facts, pollutants, dust, dirt, etc. may not affect the membrane, which retains its initial extra bright white shade for long periods of time. In terms of typical **colour fastness duration** and as long as the product is properly applied as per current official technical documentation & and only on recommended substrates, as a high-quality elastomeric reflective coating which retains its whiteness and high cool properties over time, **Silatex® Reflect**:

- typically maintains its colour for at least ***7-10 years*** before noticeable fading occurs under normal conditions
- may present slight fading in ***3-5 years*** under extreme UV exposure conditions
- does ***not*** present excessive fading within ***at least 10 years*** after its initial application under any climatic conditions

On behalf of **NEOTEX® S.A.**,

NEOTEX S.A.
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