

Neorooft[®] – Energy Saving Analysis

Neorooft[®] is a premium quality hybrid (PU in acrylic dispersion) elastomeric waterproofing coating for flat roofs, which is certified for its high reflectance and heat emittance properties. Based on the relevant certifications issued by the *Center of Renewable Energy Sources* in Greece & the Department of Physics of the *University of Athens*, its respective cool roofing figures are stated in the table below.

Neorooft [®] - Cool Roofing Properties	
REFLECTANCE – HEAT EMITTANCE SOLAR REFLECTANCE INDEX	
Reflectance (Visible: 400-750nm)	91,8%
Total Reflectance	88,0%
Total Emittance Coefficient	0,86
SRI (Solar Reflectance Index)	111

Neorooft[®] has a UV cross-linking system incorporated. Due to its innovative UV-curable technology, a hard film is created on the final cured waterproofing membrane, which provides the coating with an excellent dirt pick-up resistance. Furthermore, after 2 days exposure to direct sunlight the film is not 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.

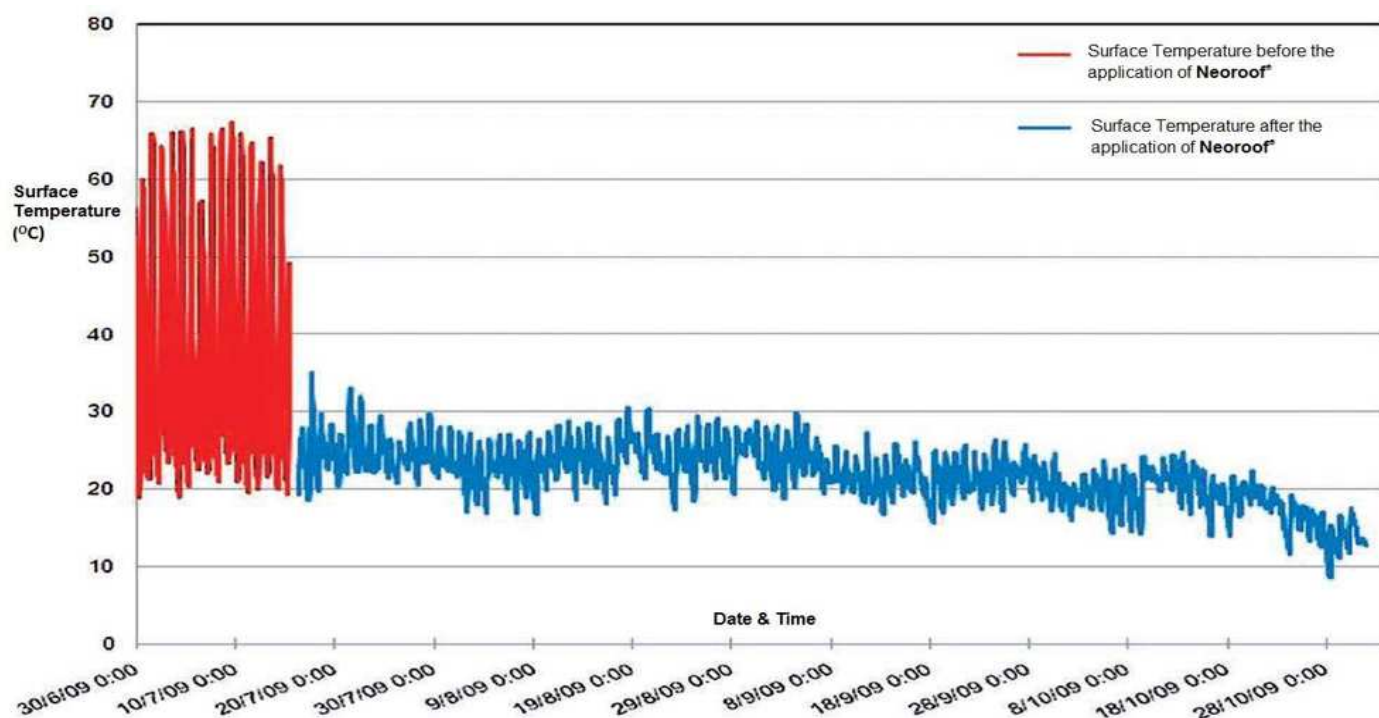
➔ **Neorooft[®] retains its whiteness and therefore its high reflectance & heat emittance properties over time**

With respect to the Energy 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, CO₂ emission reduction and Return on Investment. The figures refer to the application of the cool elastomeric waterproofing materials **Neorooft[®]** 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 m².

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Neoroo® & Silatex® Reflect - 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

The roof surface temperature prior to the application of **Neoroo®** reaches **67,2°C**. After the application, the average roof surface temperature is only **24,8°C**, according to the graph below.



On behalf of **NEOTEX® AEVE**,

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