



ESTABLISHED IN 1959

CONSTRUCTION CHEMICALS

Neorooft[®]

CE

Hybrid waterproofing rooftops coating
with thermal insulation properties

Certified by:



KAPÉ
CRES



UNIVERSITY
OF ATHENS

Waterproofing and insulation of a walkable roof with a hybrid coating



Neoroo®

New generation hybrid waterproofing coating, ideal for walkable (light traffic) roofs. It is not affected by temperatures as low as -35°C and forms an elastic waterproofing membrane which does not get tacky even in very high temperatures. The cured membrane is characterized by its high performance and reflectance. It is resistant to stagnant water and maintains its whiteness through time. Certified by the CRES (Center for Renewable Energy Sources and Saving) and the University of Athens for its innovative properties.



PROPERTIES – ADVANTAGES

- ▶ Forms an elastic membrane impermeable to water
- ▶ Resistant to stagnant water
- ▶ Resistant to temperatures from -35°C to +85°C
- ▶ Consumption (2 layers):
 - 500-700gr/m² on concrete & cementitious substrates
 - 1kg/m² on mineral bitumen membranes
 - 400gr/m² on metallic surfaces
- ▶ Total Reflectance (SR%): 88% (ASTM E 903-96)
- ▶ Total Emittance: 86% (ASTM 408-71)
- ▶ Reflectance: 91,8% (Visible: 400-750nm)
- ▶ Reduces the temperature of the exterior surfaces in the summertime up to 40%
- ▶ Smooth surface, high whiteness
- ▶ Low consumption

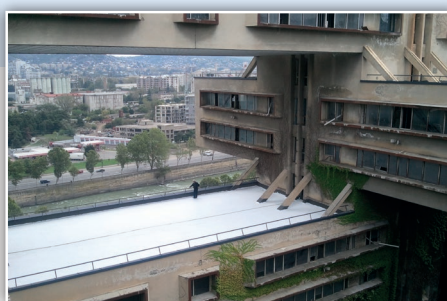
FIELDS OF APPLICATION

- ▶ Concrete slabs, cement tiles, cement slurries
- ▶ Walkable roofs, especially with problems of stagnant water
- ▶ Bituminous membranes (with or without gravity stone/aluminium sheet on top)
- ▶ Metal surfaces
- ▶ Polycarbonate sheets
- ▶ Painted polyurethane panels
- ▶ New or old polyurethane coatings
- ▶ Glass surfaces
- ▶ Over old roofing made of asbestos
- ▶ Waterproofing of roofs with photovoltaic panels (crystal or thin film)

Packing:

13kg, 4kg, 1kg in plastic containers





APPLICATION PROCEDURE

Surface preparation

The substrate must be clean, dry and free from dust, oil, grease, dirt, moss or any poorly adhering material (pic. 1)

Priming the surface

For the stabilization of the surface of the concrete or the bituminous membrane, before the application, prime the surface with copolymer emulsion **Revinex**[®] diluted with water in a ratio **Revinex**[®]: water 1:3 to 1:4 (pic. 2) in order to seal any pores, fix the surface, and thus obtain stronger adhesion and higher coverage.

AUXILIARY MATERIALS



Neotherm[®]

New technology, certified thermal insulating material for roofs, facades and interior surfaces before the application of the waterproofing coating **Neorooft**[®] or the reflective coating for vertical surfaces **Silatex**[®] **Reflect**.

Consumption: 500-700ml/m² in two coats

Packing: 10L, 3L in plastic pails



Revinex[®]

Premium quality copolymer additive which offers incomparable waterproofing, elasticity and adhesion to the mortars

Dosage: 1-10kg/cement bag of 50kg (depending on the requirements of each application)

Packing: Drum of 200kg, containers of 18kg, 5kg, 1kg



Neotextile[®]

Non-woven polyester tissue 50gr/m² "geotextile" for reinforcing coating materials. It does not need a high consumption (1,50kg/m²) in order to be covered. Essential for cracks and parapets.

Packing: Rolls of 300m, 100m, 50m x 1,08m

VERSION



Neorooft[®] Nordic

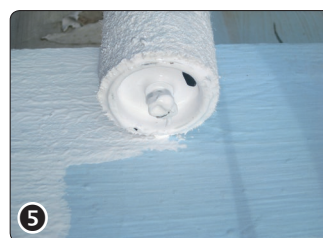
New hybrid waterproofing material of high performance for roofs, in a terracotta colour, with excellent resistance in temperatures as low as -35°C. Suitable for roof tiles, ridges and on top of bituminous membranes.

Consumption: 500-700gr/m² in two coats

Packing: 13kg, 4kg in plastic containers

Application of Neorooft[®]

Stir the product thoroughly in its container. After priming, apply at least two layers of **Neorooft**[®] using a brush or a roller (pic. 3) each time working the material in a vertical or different direction to that of the previous coat. Dilute with 5-10% water for the first coat. Apply the second coat after the first one has dried (usually after approximately 24 hours), without thinning. Follow the same procedure for the third coat, if it is considered necessary. If the thermal insulating coating **Neotherm**[®] (pic. 4) has been applied in advance, the application of **Neorooft**[®] takes place (pic. 5) after approximately 24 hours without priming the surface. For demanding applications or when covering cracks wider than 2mm, **Neorooft**[®] may be reinforced with the specially designed non-woven polyester tissue **Neotextile**[®] (pic. 6). In such cases, at least three coats of the product are required (pic. 7). It is advised that the waterproofing is continued in the vertical surfaces of the roof in a height of at least 20-30cm (pic. 8), in order to form a uniform waterproofing membrane.



**Annual primary energy consumption for cooling and its percentage variation
after Silatex® Reflect & Neorooft® application**

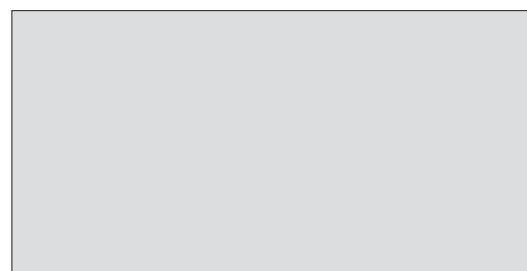
| | Climate Zone A | | Climate Zone B | | Climate Zone C | | Climate Zone D | |
|------------------------------|---|---|---|---|---|---|---|---|
| | Primary Energy (cooling) KWh/m ² | % variation of primary energy for cooling | Primary Energy (cooling) KWh/m ² | % variation of primary energy for cooling | Primary Energy (cooling) KWh/m ² | % variation of primary energy for cooling | Primary Energy (cooling) KWh/m ² | % variation of primary energy for cooling |
| Reference building | 115,1 | | 150,7 | | 64,3 | | 22,3 | |
| Neorooft® & Silatex® Reflect | 35,9 | -68,8% | 60,7 | -59,7% | 17,7 | -72,4% | 2,9 | -87,0% |

The above tables of measurements summarize an energy research-report which was conducted by the University of Athens - Department of Physics – Division of Applied Physics – Group for Studies on the Build Environment. The energy saving achieved at the model-residence was calculated by combined use of the mentioned NEOTEX® products.

PhotosGraphics.gr



*Your confidence...
is not a coincidence!*



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