

## Neorooft<sup>®</sup>

### Hybrid waterproofing rooftops coating

#### Description of the product

Hybrid (acrylic-polyurethane), waterproofing coating for roofs with UV cross linking system. It is certified product, with high reflectance and total emittance providing thermal insulation. It forms a non-penetrating against moisture film with resistance to extreme low temperatures up to -35°C. Basic application is also the coating of the mineral bitumen membrane with gravity stone.

#### Fields of application

- Roofs made of concrete, cement boards, mosaic, cement slurries
- Rooftops with resistance to stagnant water
- Mineral bitumen membranes
- Metallic surfaces
- Beside and under photovoltaic panels, enhancing their efficiency
- Air-conditioning tubes
- New or old polyurethane waterproofing layers
- Thermal-insulating polyurethane panels and polycarbonate panels
- Glass surfaces
- Galvanized metal sheets
- Over old roofing made of asbestos
- (Upon some surfaces above, it is necessary to prime them with the appropriate each time primer, before Neorooft<sup>®</sup> application)

#### Properties-Advantages

- It is easily applied and dries into a smooth film that covers capillary cracks and provides total protection against moisture.
- Neorooft<sup>®</sup> has a UV cross-linking system incorporated, designed to give very good dirt pick-up resistance. After 2 days exposure to direct sunlight the film is no tacky even under high temperatures.
- It is not affected by adverse weather conditions and maintains its elasticity for temperatures from -35°C to +80°C, offering excellent impermeability to water.
- In conjunction with thermal insulation product Neotherm<sup>®</sup>, it reduces considerably the temperature inside the building
- It reflects the solar radiation and significantly reduces the energy consumption during summer period
- Due to high reflectance and total emittance, it decreases the temperature of the external surface that is exposed directly to the sun.
- It offers cool atmosphere during summer and energy consumption reduction for air-conditioning.
- Eco-friendly contributing to the elimination of the 'urban heat island' phenomenon and to the atmosphere pollution restriction, due to CO<sub>2</sub> emissions decrease.
- It delays the aging of the mineral bitumenous membrane
- Certified with CE (EN 1504-2)

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## Neoroo<sup>®</sup>

### Technical characteristics

Appearance	Viscous liquid
Density (EN ISO 2811-1:2011)	1,29 kg/l
Consumption	500-700 gr/m <sup>2</sup> for two coats (cementitious surface), 1-1,25 kg/m <sup>2</sup> for two coats (mineral bituminous membrane)
Drying time (25°C)	2 – 3 hours initially
Tensile Strain at Break (thickness 1mm)	486,57 ± 33,30%
PH (ISO 1148)	8 - 9
Dry to recoat (25°C)	24 hours (low temperatures and high humidity prolong drying)
Adhesion strength (EN 1542:2001)	2,54 N/mm <sup>2</sup>
Hardness shore A (ASTM D2240)	44
Service temperature	From -35°C to +80°C
Absorption Coefficient (EN 1062-3:2008)	0,00 kg/m <sup>2</sup> min <sup>0,5</sup>
Permeability CO <sub>2</sub> (EN 1062-6:2002 Method A)	0,21 g/(m <sup>2</sup> d)
Factor resistance μ (EN 1062-6:2002 Method A)	120228
Factor Sd (EN 1062-6:2002 Method A)	529,00m
Vapor Permeability Λ (ISO 7783-1:1999)	0,0019 g/cm <sup>2</sup> d <sup>-1</sup>
Resistance coefficient in diffusion μ (ISO 7783-1:1999)	141,4777
Factor Sd (ISO 7783-1:1999)	0,62
Reflectance	91,8% (Visible: 400-750nm)*
Total Reflectance (SR%)	88%*

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX<sup>®</sup> SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX<sup>®</sup> 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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Solar Reflectance Index (SRI)	111 (ASTM E1980-01)
Total Emittance	0,86 (ASTM E408-71)

\*(ASTM E 903-96), (ASTM G159-98)

-CRES – Laboratory for Energy Tests  
- University of Athens

### Instruction for use

*Surface preparation:* The substrate should be clean, dry and free from dust, oil, grease, or any poorly adhering material. It is advisable to prime the surface with **Revinex<sup>®</sup>** diluted with water in ratio **Revinex<sup>®</sup>:water-1:3**, in order to seal any pores, fix the surface, and thus obtain stronger adhesion and higher coverage or **Silatex<sup>®</sup> Primer** diluted 30% with solvent **Neotex 1111**.

*Application:* Stir the product thoroughly in its container. After priming, apply at least two layers of Neorooft<sup>®</sup> using a brush or a roller, 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 24 hours, without thinning. Follow the above directions to the third layer.

In case of application over asphalt membrane, apply 1-2 coats of primer **Revinex<sup>®</sup>** diluted with water in ratio **Revinex<sup>®</sup>:water – 1:3**, followed with at least 2 layers of coating Neorooft<sup>®</sup>.

### Notes

- **Neorooft<sup>®</sup>** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- Application conditions: Moisture of the surface < 6%, Relative atmosphere moisture <80%. The application should take place under temperature between 12°C and 40°C.
- For demanding applications or when covering cracks bigger than 1,5 mm, **Neorooft<sup>®</sup>** may be reinforced with specially designed non-woven polyester tissue **Neotextile<sup>®</sup>**. In such cases, at least three coats of the product are required.
- Coating thickness should not be excessive in order to avoid long drying times.
- Total hardening of the film occurs 7 days after the application



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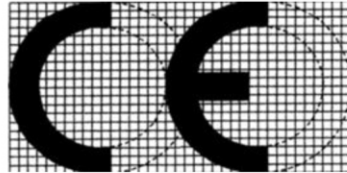
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- Under no sunshine conditions, the film polymerization lasts more time and the surface becomes tacky for longer period.
- It is necessary to be exposed to UV rays and cannot be applied to surfaces not subduced to sunlight. It is only applied on exterior surfaces (not contained spaces).

<b>Packing</b>	13 kg, plastic containers
<b>Cleaning of tools</b>	Use plenty of water immediately after application
<b>Stain removal</b>	Use water when the stain is still fresh and damp. In case of hardened stains, use mechanical means or a paint remover.
<b>Storage stability</b>	The product is stable for 2 years when kept unopened in its original container, protected from frost and direct sunlight.

## Neoroo®



1922

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1922-CPR-0386

DoP No. Neoroo /4950-01

EN 1504-2

**Neoroo**

Surface protection system for concrete  
Coating

Water vapour permeability	:	Class I
Capillary absorption and permeability to water	:	$W < 0,1 \text{ kg/m}^2 \text{ h}^{0,5}$
Adhesion strength	:	$\geq 0,8 \text{ N/mm}^2$
Permeability to CO <sub>2</sub>	:	$s_D > 50 \text{ m}$
Reaction to fire	:	Euroclass F
Dangerous substances	:	comply with 5.4