NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
www.neotex.gr • e-mail: neotex@neotex.gr
ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.:+30 210 5557579, FAX: +30 210 5558482
THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.:+30 2310 467275, FAX: 2310 463442

Neoroof®

Hybrid waterproofing rooftops coating

Description of the product

Hybrid 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 Neoroof® application)

Properties-Advantages

- It is easily applied and dries into a smooth film that covers capillary cracks and provides total protection against moisture.
- Neoroof® 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®, 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 emmitance, 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_2 emissions decrease.
- It delays the aging of the mineral bitumenous membrane
- Certified with CE (EN 1504-2)

NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
www.neotex.gr • e-mail: neotex@neotex.gr
ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.:+30 210 5557579, FAX: +30 210 5558482
THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.:+30 2310 467275, FAX: 2310 463442

Neoroof®

Technical characteristics

Appearance	Viscous liquid
Density (EN ISO 2811-1:2011)	1,29 kg/l
Consumption	500-700 gr/m^2 for two coats (cementitious surface), 1-1,25 kg/m^2 for two coats (mineral bituminous membrane)
Drying time (25^{o}C)	2 – 3 hours initially
Tensile Strain at Break (thickness 1mm)	300%
PH (ISO 1148)	8 - 9
Dry to recoat (25^{o}C)	24 hours (low temperatures and high humidity prolong drying)
Adhesion strength (EN 1542:2001)	1,47 N/mm^2
Hardness shore A (ASTM D2240)	44
Service temperature	From -35^{o}C to +80^{o}C
Absorption Coefficient (EN 1062-3:2008)	0,00 kg/m^2 min ^{0,5}
Permeability CO_2 (EN 1062-6:2002 Method A)	0,21 g/(m^2 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^2 d^{-1}
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%*

NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
www.neotex.gr • e-mail: neotex@neotex.gr
ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.:+30 210 5557579, FAX: +30 210 5558482
THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.:+30 2310 467275, FAX: 2310 463442

Neoroof®

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®** diluted with water in ratio **Revinex®:water-1:3**, in order to seal any pores, fix the surface, and thus obtain stronger adhesion and higher coverage or **Silatex® Primer** diluted 30% with solvent **Neotex 1111**.

Application: Stir the product thoroughly in its container. After priming, apply at least two layers of Neoroof® 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®** diluted with water in ratio **Revinex®**:water – 1:3, followed with at least 2 layers of coating Neoroof®.

Notes

- **Neoroof®** 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, **Neoroof®** may be reinforced with specially designed non-woven polyester tissue **Neotextile®**. 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

NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
www.neotex.gr • e-mail: neotex@neotex.gr
ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.:+30 210 5557579, FAX: +30 210 5558482
THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.:+30 2310 467275, FAX: 2310 463442

Neoroof®

- 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 subdued to sunlight. It is only applied on exterior surfaces (not contained spaces).

Packing	13 kg, 4kg and 1kg plastic containers
Cleaning of tools	Use plenty of water immediately after application
Stain removal	Use water when the stain is still fresh and damp. In case of hardened stains, use mechanical means or a paint remover.
Storage stability	The product is stable for 2 years when kept unopened in its original container, protected from frost and direct sunlight.

NEOTEX® S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
www.neotex.gr • e-mail: neotex@neotex.gr
ATHENS: V. MOIRA, INDUSTRIAL AREA MANDRA, 19600, ATHENS, GREECE, TEL.:+30 210 5557579, FAX: +30 210 5558482
THESSALONIKI: 10th km N.R THESSALONIKIS-POLIGIROU, 57001, THERMI THESSALONIKI, GREECE, TEL.:+30 2310 467275, FAX: 2310 463442

Neoroof®

1922

NEOTEX S.A.
V. Moira str., P.O. Box 2315
GR 19600 Industrial Area Mandra, Athens, Greece

14

1922-CPR-0386

DoP No. Neoroof /4950-01

EN 1504-2

Neoroof

Surface protection system for concrete
Coating

Water vapour permeability	:	Class I
Capillary absorption and permeability to water		W < 0,1 kg/m^2 h^{0,5}
Adhesion strength	:	≥ 0,8 N/mm^2
Permeability to CO_2	:	s_D >50 m
Reaction to fire	:	Euroclass F
Dangerous substances	:	comply with 5.4