



## Neotherm<sup>®</sup> AC

### Anti-condensation coating for interior use



### Description

Unique anti-condensation coating of high coverage and low thermal conductivity compared to conventional paints. Specially designed to prevent water vapour condensation on internal walls and ceilings, thus permanently preventing the growth of mould and bacteria.

Qualified for use in **LEED** projects globally, by showing compliance with the specifications for VOC content ( $<1g/l$ ) and VOC emissions, achieving the highest classification in terms of TVOC emissions ( $<0,5mg/m^3$ ).

Classified in the highest emission class **A+** with respect to VOC emissions in interior areas.

Presents exceptional wet-scrub resistance (**Class 1** acc. to **EN 13300**).

### Fields of application

- On internal walls (plaster, concrete, etc.) and ceilings, especially in residencies with insufficient thermal insulation and high levels of humidity
- Wet rooms with high relative humidity, e.g. bathrooms, kitchens
- On thermal bridges (in beam junctions, northern walls, etc.) which are a basic cause of water vapour condensation and mould growth
- As a finish in **N-Thermon<sup>®</sup> System**, further contributing to energy savings

*The surfaces require appropriate preparation and priming prior to the application of Neotherm<sup>®</sup> AC.*

### Properties - Advantages

- Prevents vapour condensation on the surfaces of internal walls and ceilings
- Permanently prevents the growth of mould and bacteria
- Exhibits high water vapour permeability and low thermal conductivity compared to conventional paints
- Presents excellent wet-scrub resistance (**Class 1** acc. to **EN 13300**)

### Packing

10L, 3L & 1L

### Colour

WHITE



- Practically zero content in volatile organic compounds (*Zero-VOC paint*), combined with ultra-low VOC emissions
- Contributes to the optimization of indoor air quality: **A+** acc. to the French legislation requirements
- Complies with the strict VOC requirements for sustainable buildings, according to **LEED** guidelines
- Eco-friendly & user-friendly (water-based, one-component)

## Certificates - Test reports

- Qualified for use in LEED projects globally, by showing compliance with the specifications for VOC emissions and VOC content, as attested by the external independent specialized laboratory of Eurofins - Fulfils the requirement LEED v4 & v4.1 (beta): EQ Credit - Low-Emitting Materials, achieving the highest classification in terms of TVOC emissions ( $<0,5mg/m^3$ ), combined with VOC content  $<1g/l$ 
  - *Attestation LEED v4 and v4.1 (beta): EQ Credit - Low-Emitting Materials*
  - *VOC Emission Test report No. 392-2024-00234601 – Regulation: CDPH (California Department of Public Health) v.1.2-2017*
  - *VOC Content Test report No. 392-2024-00234604– Regulation: SCAQMD (South Coast Air Quality Management District) Rule 1113 (2016)*
- Certification of compliance with the French regulation regarding indoor VOC emissions - Classified in the highest emission class A+
  - *Attestation French VOC Regulation: VOC emission class A+*
  - *VOC Emission Test report No. 392-2024-00234601 – French VOC Regulation: Decree of March 2011 and Arrête of April 2011 and French CMR components: Regulation of April and May 2009*
- Tested successfully and evaluated for its wet-scrub resistance – Classified in the highest class (Class 1) acc. to EN 13300  
*Test report by the external independent quality control laboratory Eurofins (No. 392-2024-00234607)*
- Analysis report for the thermal properties by the University of Athens – Physics Dept.
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE



Certified by:



UNIVERSITY  
OF ATHENS



## Technical characteristics

Density (EN ISO 2811-1)	1,10kg/L (±0,1)
Gloss (60°)	<5
Thermal conductivity ( $\lambda$ ) (ISO/DIS 22007-2)	0,084W/mK
Thermal diffusivity (ISO/DIS 22007-2)	0,1926mm <sup>2</sup> /s
Wet-scrub resistance (EN 13300)	Class 1
<b>Coverage: 8-10m<sup>2</sup>/L per layer</b>	

### Application conditions

Substrate moisture content	<6%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+8°C min. / +35°C max.

### Curing details

Drying time (+25°C, RH 50%)	2 hours
Dry to recoat (+25°C, RH 50%)	3-4 hours
<i>* Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i>	

### Appropriate primers on usual substrates

Substrate	Primer	Description - Details
Concrete, plaster	<b>Revinex®</b> (diluted with water 1:4)	Water-based primer of high adhesion on cementitious substrates
	<b>Silatex® Primer</b>	Acrylic solvent-based primer, with high penetrating ability
	<b>Vinyfix® Primer</b>	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates

## Instructions for use

### Substrate preparation

The surface must be stable, clean, dry, protected from rising moisture and free of dust, oil, grease and loose materials. Any poorly adhering materials and older coatings should be removed, and the surface should be thoroughly cleaned mechanically or chemically. In case the surface has been infected with mould, it is necessary to initially clean it with a proper mould remover or bleach diluted with water and thoroughly rinse with clean water. Depending on the substrate, appropriate mechanical preparation may be required, to smooth the irregularities, open the pores and create the optimum conditions for adhesion. The surfaces should be sufficiently flat, smooth, and continuous (i.e., without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g. by proper puttying).

### Priming

Prior to the application of **Neotherm® AC**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply **Revinex®** diluted with water in a ratio **Revinex®**: water - 1:4 or the solvent-based primers **Silatex® Primer** or **Vinyfix® Primer**.



**Application**

After thorough stirring, **Neotherm® AC** is applied on the properly prepared surface, diluted up to 5% with clean water, by roller or brush, in at least two layers.

**Special notes**

- In areas where there have been severe past problems of moisture and mould, it is necessary to apply at least three layers of the material.
- **Neotherm® AC** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the application or the curing period of the product

<b>Appearance</b>	Viscous liquid
<b>Colours</b>	White Also available in D base offering versatility for the creation of the requested shade
<b>Packing</b>	10L, 3L and 1L in plastic pails
<b>Cleaning of tools – Stains removal</b>	By water immediately after application. In case of hardened stains, by mechanical means
<b>Volatile organic compounds (V.O.C.)</b>	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AcWB: 40g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <40g/l
<b>UFI code</b>	33C0-J09M-E000-53XE
<b>Storage stability</b>	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® 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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