



Manufacturer :

Agencia de Energia Alternativa 2020 SL
Orihuela Costa, Alicante, SPAIN

Supplier :

Alternatiivenergia Agentuur OÜ
Vahi, Tartu vald, Tartu maakond, ESTONIA

Nanotechnological liquid insulation NANOTER



NANOTER - a coating material whose thermophysical properties exceed known analogs.

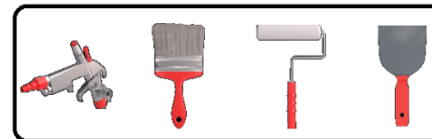
The NANOTER thermal coating (hereinafter also referred to as the product) consists of modern environmentally friendly polymeric nanomaterial forms supporting a flexible structure of microspheres formed from ceramic and glass in vacuum.

As a coating material, NANOTER acts as a heat insulator at lower ambient temperatures, as a heat insulator, and a heat reflector at high temperatures (solar radiation in the range of 70 to 95 %). The product is very resistant to UV radiation.

NANOTER water base products, depending on the additives, can withstand temperatures between – 60 °C and + 150 °C (short-time + 200 °C).

NANOTER coatings are ready-to-use, odorless, non-toxic, with good adhesion, white, semi-matt and tintable (RAL) in light tones.

NANOTER products are water-based acrylic dispersions that can be applied to any surface with an adhesive comb and putty knife, roller, brush, or airless sprayer. The products are soluble in water and are safe.



Technical preferences of NANOTER

Basis:	acrylic copolymer dispersion or water-based acrylic dispersion
Specific thermal conductivity λ :	0.0012 W/m*K
Reflectivity:	88 % (by different spectra 70 - 95%)
Temperature resistance (environment):	-60 to +150°C (short-term up to 200°C)

After drying, an elastic coating is formed, which has unique insulating properties (prevention of heat loss, protection against freezing) and decorative after coating - compared to commonly used insulation.

Some facts:

1 mm layer of **NANOTER** with thermal insulation properties **replaces a 35-40 mm** layer of mineral wool.

The service life of thermal insulation under normal conditions of use **is more than 12-15 years.**

NANOTER is used in different versions, either separately or in combination:

1. as thermal insulation almost every where - external and internal surfaces, mashinery, transportation, piping and ect.;
2. for the prevention and control of corrosion of various metals;
3. as waterproofing on the external and internal surfaces of buildings and structures, incl.: roof, basement, pools;
4. for the protection of buildings and structures (incl., ventilation, pipelines, tanks) against environmental impacts: mold, plant organisms; UV and solar radiation; chemical and etc.;
5. to protect buildings and communications against condensation;
6. as insulation materials for means of transport against various from environmental impacts

IMPORTANT:

in-side rooms where noise and quality of air fluctuate widely - nanotechnological insulation **NANOTER** gives **noise insulation** and supports the **clean air effects**.

Dust, dirt, pollen and other common airborne contaminants gain positive electric energy, which prompts electrostatic adhesion to walls and ceilings. Electrostatic propensity of **NANOTER** is 0.0 prevents dirt adhering to surfaces, while its ionized moisture, reducing the amount of impurities floating in the room environment.

Nanoter Wall



Nanotechnological thermal insulation of facades and interior walls

The high reflectivity makes **NANOTER WALL** the best choice for professional facade thermal insulation used in construction. The material can also be used to improve the thermal properties of interior-exterior walls.

Suitable for various mineral surfaces (incl., brick and plaster surfaces), also metals, wood, plastic.

In addition to these properties, **NANOTER WALL** inhibits mold and the development of plant organisms and is resistant to weather and UV radiation.

Nanoter Concrete



Nanotechnological thermal insulation with reinforced surface
suitable for indoor and outdoor surfaces (various mineral surfaces such as plaster, lightweight blocks, brick, etc., also metal, wood, plastic) - temperature range $-60\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$ (short-term up to $200\text{ }^{\circ}\text{C}$).

In addition to thermal properties, **NANOTER CONCRETE** is resistant to weather and UV radiation, and the finished surface is strong and decorative. Especially suitable for interior surfaces that can later be also covered with decorative materials (wallpaper, ceramic tile, etc.).

Nanoter Basic



Nanotechnological universal thermal insulation

suitable for all indoor and outdoor surfaces (various metals, concrete and other mineral surfaces, also wood, plastic) in environments in the temperature range $-60\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$ (short-term up to $200\text{ }^{\circ}\text{C}$).

The universal properties allow NANOTER BASIC to be used wherever the special properties of the coating are not required – as **MULTIFUNCTIONAL PROTECTOR** for **VARIOUS SURFACES**.

Nanoter Iron



Nanotechnological anti-rust thermal insulation suitable for interior and exterior surfaces, mainly metals and metal structures, pipes and tanks, metal parts of vehicles, tanks, etc., metal surfaces as thermal insulation with anti-rust protection.

NANOTER IRON can also be used on other surfaces that may contain metal parts: concrete and other mineral surfaces, wood and plastic and the finished surface is decorative.

Nanoter Condence



Nanotechnological condensate repellent thermal insulation

In addition to its thermal properties, **NANOTER CONDENSE** prevents the formation of condensate on the surface - ventilation pipes, foundations, roofs, garage, air-conditioned rooms - is resistant to weather and UV radiation, inhibits the development of mold and plant organisms.

After the "Intelligent Shield" covering the moldy structures, it suppresses the growth of mold and fungi. Mold resistance is natural, does not contain harmful biocides.

Nanoter Pro Aquamet



Nanotechnological flexible, anti-corrosion insulation
suitable protection for interior and exterior surfaces of or with metal (various metals and alloys) but also reinforced concrete, other mineral surfaces, wood and plastic combine metal parts rust protection - in environments at temperatures from **-50 °C to +120 °C** (short-term up to **140 °C**).

NANOTER PRO AQUAMET is resistant to weather and UV radiation, corrosion-resistant, and resistant to mechanical damage. Contains corrosion inhibitors and rust modifiers. **Quick drying rust killer!**

Nanoter Pro Hydrostop



Nanotechnological flexible hydro insulation

NANOTER PRO HYDROstop is water, weather, and UV resistant, one component, very elastic rubber mastic, with good corrosion resistance and resistant to mechanical damage.

Particularly suitable for renovating various existing roof surfaces, where, among other things, it fills openings up to 3 mm wide, both for the construction of wet surfaces and for waterproofing.

Nanoter Crystal



Nanotechnological ultra thin transparent hydro insulation

In addition to its hydro insulating properties, **NANOTER CRYSTAL** has good elongation, crack, weather, and UV resistance, is resistant to mechanical damage, has the ability to repel mold and plant organisms and dirt.

Due to the above-mentioned properties and transparency, it is suitable for covering the facades (incl., brick-, concrete and wood walls, log houses), different roofs, terraces, pools, basements and damp rooms.

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