



Ecolo Synergy in a few words

Description

Ecolo Synergy is a company that saw the light of day in 2010, working mainly in the field of nanotechnology applied to the optimization of the thermal efficiency of windows. It has distinguished itself with its coating and its membrane, notably by winning the prize for the technological discovery of the year by the Montreal Home Show, only 1 year after its creation.

Since then, it has satisfied its hotel, commercial, institutional, and residential customers in their environmental, savings and comfort objectives.

Our commitment:

To provide quality products based on the latest technologies and to market products that are safe and environmentally friendly.

Our objectives:

- Increase the energy efficiency of new and old buildings.
- Increase the life cycle of materials.
- Improve indoor comfort in all seasons.
- Reduce the use of heating and cooling systems regardless of the type of energy used without affecting daylight.
- Significantly reduce renovation costs by avoiding window replacement.



Our Low-E product, an energy efficient solution for existing windows

The Ecolo Synergy product is tested and certified in accordance with:

- Health Canada's requirements
- Environmental Protection Agency (EPA)
- Low volatile organic compound (VOC) emissions
- The commitment Nano responsibility
- (U-Factor= 0.48) (Solar Gain Heat= 0.48) (UV protection= 95%)

Our technology:

- Ecolo Synergy's Low-E thermal protection is a state-of-the-art product designed through the extraordinary developments of nanotechnology in 2010 and then improved.
- This technology makes it possible to develop a protection that optimizes the energy coefficient of single, double or triple-glazed windows exposed to the sun, heat and cold.
- Ecolo Synergy's product is certified and offers exceptional energy saving prospects.
- Ecolo Synergy's Nanothermal technology optimizes the thermal performance of the windows. Can help to reach targeted temperatures and savings objectives where building mechanics reach their limits.
- Ecolo Synergy 's guarantees its product efficiency.
- Our product is internationally recognized.

Product demonstration video:

<https://ecolosynergy.com/en/demonstration-video/>

Product web page:

<https://ecolosynergy.com/en/ecolo-synergys-nanothermal-technology/>



NANOTHERMAL PROTECTION

Blocks up to 95% of ultraviolet, 95% of infrared and 12% of light without any significant change in daylight, thus reducing air conditioning and heating costs.

- Based on tests performed on 4mm thick glass, the temperature reduction goes from 25.6°C to 18.3°C at thirty centimeters from the window.
- NANOTHERMIC product reduces the penetration of ultraviolet rays inside the building by 95%, thus reducing the discoloration of materials, fabrics, furniture, etc.
- The estimated average energy loss through windows during the winter months is 25%. Our NANOTHERMIC product reduce heating costs during the winter months by dispersing the heat on the surface of the glass.
- Our NANOTHERMIC product therefore optimize the energy coefficient of existing windows and eliminates the need to replace windows.
- Our NANOTHERMIC product offers a ten-year warranty*.
- Our team of professionals installs our NANOTHERMIC product in an efficient and professional way.
- All of this reduces your annual air conditioning and heating costs by up to 40% depending on the condition and age of your property.
- Adds value to your real estate portfolio when selling your property.

Technical Data

Blocking of UV rays (Ultraviolet)	95% (290 - 380 nm)
Blocking of IR-rays (Infrared)	95%
Light blocking	12%
U-factor	0.48
Solar heat gain coefficient (SGHC)	0.48
Total lead content	<5 ppm (Safety limit of 90ppm)
Total mercury content	<5 ppm (Safety limit of 10ppm)
Volatile organic compound (VOC)	6.08 g/L (Less than 50 g/L considered low)



8 ADVANTAGES OF NANOTHERMIC

More energy savings

Its thermal insulation performance is superior to that of similar interior products; it significantly reduces energy consumption due to air conditioning and heating, thus saving 20% to 40% of their consumption.

High Thermal Insulation

Its thermal insulation performance reduces infrared rays by up to 95%, thus generating a very high level of effective thermal insulation.

Protection against ultraviolet rays

Blocks over 95% (290 - 380 nm) of UV rays, protecting health, preventing fading of interior furniture, upholstery, carpets, pictures and decorations and office equipment. Allows to considerably extend the life of all these goods.

Protection of the environment

Water-based or membrane solution, adopting state-of-the-art nanotechnology, which exactly meets the international environmental requirements. It can be applied to all existing buildings and constructions.

Allowing important energy savings without any replacement of glass, no expensive construction work, nor any production of construction waste with high environmental impact. It is a true ecological product of high technology and is part of a real sustainable development.

More economical

The cost of this energy saving transformation is only 10% to 40% of the cost of replacing low-emissivity glass. It can be installed and applied directly on existing glass surfaces without having to change the windows, window panes, or any window frame or support.

Efficient installation

Installation in minutes, immediate effectiveness; NANOTHERMIC products can be applied directly from the inside on existing windows; it is the leader in this industry.

More physical security

High adhesive and mechanical properties; limited glass breakage fragmentation.

Our realizations



Holiday Inn



Crowne Plaza Hotels & Resorts



Westin Hotels & Resorts



Concordia University



Real estate management company - Busac