

CHEMIGREEN-TIC

SOLAR CONTROL TECHNOLOGY

Nanotechnology for energy efficiency: Nano Glass Coat

With its continuing search for products offering energy efficiency, **CHEMIGREEN-TIC** is promoting the use of an innovative solution in the sector of solar shielding: **CHEMIGREEN-TIC**.

CHEMIGREEN-TIC is a special nano-technological fluid based on metal oxides (antimony, indium, tin, tungsten and cesium oxides), which is applied to transparent surfaces, with the use of different techniques, and includes an ultraviolet-ray screening agent and an infrared-ray screening agent.

CHEMIGREEN-TIC is a special nanomaterial-based transparent coating that is applied to glass surfaces in order to provide shielding from infrared and ultraviolet rays.

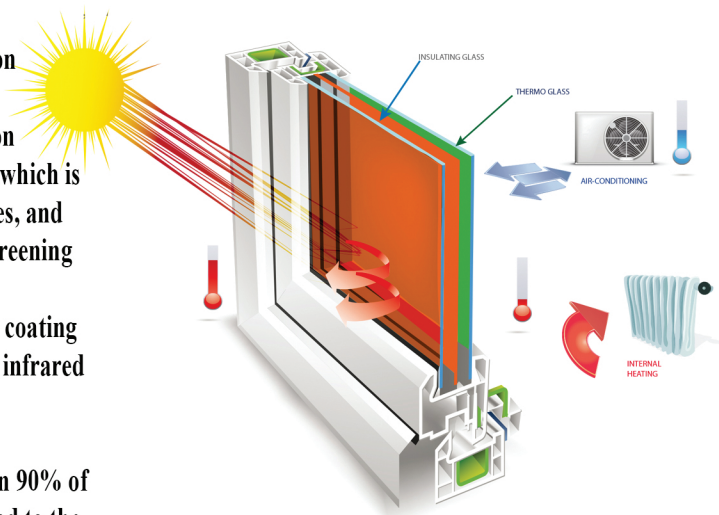
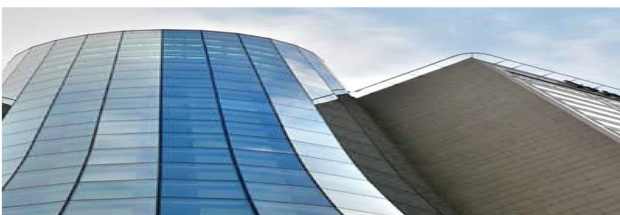
CHEMIGREEN-TIC IS SHIELDING FROM INFRARED RAYS

The application of Nano Coat Glass blocks from 70% to more than 90% of the infrared rays, and it improves the resilience of windows exposed to the sun by drastically reducing the quantity of heat that normally penetrates glass, thereby keeping the interior temperature more comfortable and reducing the annoying "greenhouse" effect that can be felt during very sunny days.

Aside from a notable improvement in environmental comfort, the application of **CHEMIGREEN-TIC** makes it possible to significantly reduce the energy cost of heating, ventilation and air-conditioning systems.

The cost savings can be up to 30%, thereby allowing for rapid returns on investment, depending on the exposure of the windows, their size in relation to the premises where they are installed, and so forth.

During the winter months, the surfaces treated with **CHEMIGREEN-TIC** reduce the losses of heat that is generated internally and escapes through windows.



+70%
GLASS
TRANSPARENCY

90%
REDUCTION OF
IR RAYS

30%
ENERGY
SAVINGS

CHEMIGREEN-TIC SHIELDING FROM ULTRAVIOLET RAYS

Nano Coat Glass blocks 99% of the ultraviolet rays and thus supplies a definitive solution against the destructive effects of ultraviolet rays:

- protects art work, expensive floors, antiques and furniture;
- protects products, textiles and colours in store window displays.

Nano Coat Glass can be applied to internal or external surfaces of windows, depending on the specific characteristics of the building, cost optimization, and installation time.

CHEMIGREEN-TIC does not change the transparency of the glass, and therefore, it does not entail the need for additional interior artificial lighting. The application of **CHEMIGREEN-TIC** is guaranteed for 10 years (applications to internal surfaces), although it may be effective for up to more than 20 years.