

CHEMIGREEN-TIC

SOLAR CONTROL TECHNOLOGY

ADVANTAGES:

The transparent surfaces of a building and their properties (in terms of their protection and shielding from solar radiation and external temperatures) are elements that significantly affect the energy needs for heating, ventilation and air conditioning.

Among the different technologies for controlling solar effects, **CHEMIGREEN-TIC** represents a developed and tested system that offers several advantages over alternative products:

more than
20
years

Product life

10
years

Product guarantee

top
performance

In terms of reduction of infra-red and ultraviolet radiation, but with an excellent level of visible light transmission

EFFECTS:

Solar radiation has three components:

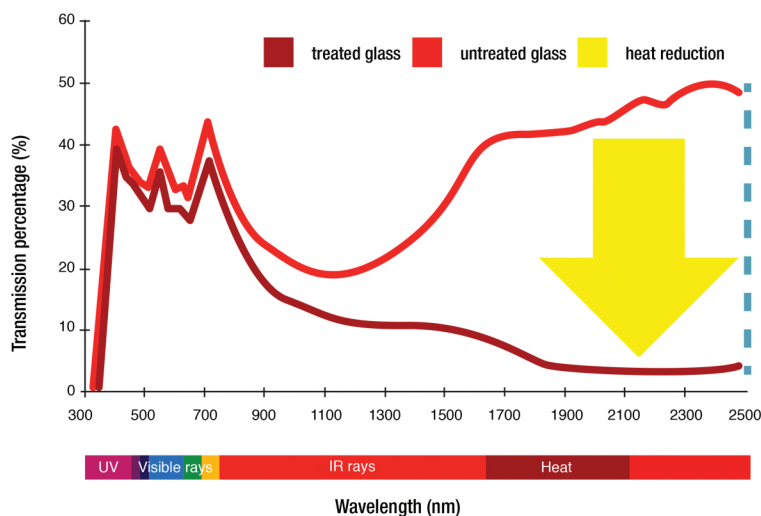
- ultraviolet radiation (approximately 3%)
 - visible light (approximately 44%)
 - infrared radiation (approximately 53%)
- A transparent plate of glass reflects about 6% of solar radiation, while it absorbs about 5% and transmits the remaining 89% (to interior space).

With the application of **CHEMIGREEN-TIC** to the glass surface (which can be done internally or externally), the following effects are obtained, with respect to reflection and absorption:

- The ultraviolet rays are reduced by approximately 99%. The coating allows for cutting around 99.6% of ultraviolet rays, thereby protecting parquet and internal furnishings;
- Some 75%-80% of the visible light is transmitted;
- The infrared rays are reduced by 90%. The coating blocks up to 90% of infrared radiation emitted, thereby reducing the interior temperature.



REFLECTION / TRANSMISSION PERCENTAGE



CHEMIGREEN-TIC allows for savings of up to 30% on the energy used for the heating, ventilation and air conditioning of interior space.

- Reduction of the environmental impact of non-renewable energy, given the use of less energy for heating, ventilation and air conditioning.
- Rapid recovery of the investment for the application of **CHEMIGREEN-TIC**, as a result of energy savings.
- Savings on electricity due to the maximum transparency of the surfaces.
- Reduction of energy used for heating interior space during the winter months, due to less heat loss through windows.

In view of these aspects, the investment made for the application of **CHEMIGREEN-TIC** can be rapidly recovered within 12-24 months.

Unlike other coatings or products dedicated to solar control, **CHEMIGREEN-TIC** Glass is applied with a roller to window surfaces, with lasting effects of more than 15 years.

