



UV Clean SOLAR CELLS

An ecological solution for optimized electrical efficiency



End of annual cleaning costs

UV Clean SOLAR CELLS

Thoroughly cleaning your photovoltaic panels allows you to obtain the **best yields** throughout the life of your equipment.

There are a multitude of elements that can accumulate on the panels: **Dust, Pollens, Dead leaves, fine particles (NO_x, SO_x, CO₂)...**

In some areas, the panels can get dirty more quickly (urban areas, agricultural areas, coastal areas) and require **frequent cleaning (up to twice a year)**

Expensive and recurring cleaning involves external intervention at each cleaning cycle with solutions that pollute the environment and represents a significant risk of damage to equipment.





Self-Cleaning Coating

UV Clean SOLAR CELLS

UV Clean SOLAR CELLS is a **self-cleaning photocatalytic coating** specially adapted for photovoltaic panels.

It is applicable on different types of panels in plastic and glass materials.

Thanks to a new type of zinc oxide, it provides **great transparency** to UV and visible radiation, and provides **long-lasting protection for the panels (up to 10 years)**.

Thanks to a patented system, it provides self-cleaning functions by:

- The generation of free radicals
- The formation of a super-hydrophilic film

These properties reduce the development of micro-organisms, algae, molds and eliminate particular pollutants.





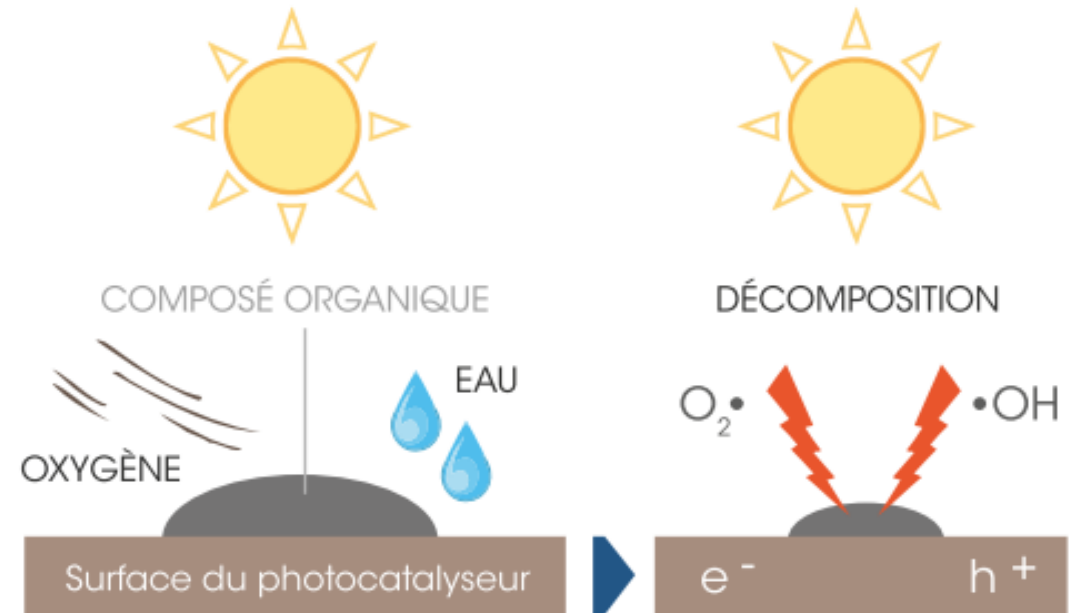
Reaction / Photocatalysis

UV Clean SOLAR CELLS

The natural decomposition of organic matter can be dramatically accelerated through the use of photocatalysts such as zinc oxide (ZnO).

Once deposited on a material, these charge carriers begin to interact with the ambient oxygen and humidity, generating **highly reactive peroxide and hydroxyl radicals**.

They oxidize the material thus transformed into water and carbon dioxide.





A clean pannel: +7% electricity*

UV Clean SOLAR CELLS

- To reduce micro-organism, algae, mold development
- To perform a self-cleaning function by destruction of stains caused by surrounding pollution
- Applied on dry, degreased and clean substrates.



*Source: Le guide Photovoltaïque 5^{ième} édition



Transmission / no disturbance

UV Clean SOLAR CELLS



*Transmission measurement
prior Treatment*



*Transmission measurement
after Treatment*

Our Service

CleanActiv Surface™

Do you want to reduce your annual maintenance costs while reducing your environmental impact?

Our approved applicator experts are at your service to implement our CleanActiv Surface process.





Our Service

CleanActiv Surface™

1 PREPARATION / CASE STUDY

Material compatibility study

Carrying out of preliminary tests with our laboratory support

Solution selection from our UV Clean™ product range

Definition of the specifications

2 IMPLEMENTATION / COATING

Service provided by an Aproved Applicator

Standardized cleaning of surfaces

Elimination of mineral and organic pollution

Application of the appropriate coating



3 SUPPORT / AFTER SALES SERVICE

Full traceability of work

After-Sales support service provided by our dedicated Laboratory



Environment friendly

UV Clean SOLAR CELLS



A natural and sustainable solution that uses the energy of the sun

A responsible solution that limits your environmental impact (saving water and cleaning agents)