

Nanosolar™ , photo catalytic nanotechnology coating for glass and plastic surfaces

Nanosolar™ is a product for the protection of weather exposed glass and plastic surface, solar panels and glass facades. It increases the light transmission and reduces the appearance of uncontrolled condensation. The applied product creates a only few nanometer thick, hydrophilic coating. A photo catalytic process , works with the sun's ultraviolet rays to gradually and continuously break down organic dirt.

“ Solution to improve energy efficiency of solar panels ”



This causes a reaction on the surface which breaks down dirt and loosens it from the glass. Exposed to rain, the water will sheet, because the hydrophilic effect spreads water evenly over the surface. The combination of hydrophilic surface and water results in a self cleaning effect, where cleaning cycles can be extended.

The ultra thin nano-scale coating does not change the appearance of the substrate. Nanosolar™ can be applied by wiping on, spraying , and other small volume application methods. The ability to reduce dirt build-ups and condensation and the prevention of water droplets, makes Nanosolar™ a perfect application for solar panels.

hydrophilic - photo catalytic - self cleaning

Nanosolar™ is

- Self cleaning
- Water and dirt rejecting
- Durable
- Heat resistant
- No change of the visual appearance of the substrate
- Can be used on flexible materials

The ultra thin invisible coating does not peel off and does not show any visual degradation even under constant long term UV and heat exposure.

Areas of application

- ✓ Solar panels
- ✓ High-temperature collectors and mirrors
- ✓ Hard to access and to maintain surfaces.
- ✓ Glass , Facades
- ✓ Condensation prevention
- ✓ Green houses
- ✓ Automotive applications
- ✓ Safety goggles, face shields
- ✓ Industrial applications

Product Advantages and Benefits

- ✓ Cost effective
- ✓ Easy to apply, spray on - wipe on
- ✓ Long lasting, easy to maintain
- ✓ Easy to clean/ self cleaning
- ✓ Ultra low consumption
- ✓ Nano- scale thickness, invisible
- ✓ Increases light transmission
- ✓ Improves energy efficiency
- ✓ Photo catalytic properties

