# **SHELL-Shield®PV**

# ACTIVE SELF-CLEANING NANOTECHNOLOGY FOR THE PROTECTION OF PHOTOVOLTAIC PANEL SURFACES

**Product Description** 

SHELL-Shield PV is a nanotechnology water-based suspension especially designed for the PV's surfaces modifying them in super-hydrophilic, self-cleaning and anti-fogging.

## Benefits:

- Easy to apply Cures at room temperature
- ∽ Self-cleaning; push away water & dirt
- ► Ready-to-use
- Protection from fungi development
- > Hydrophilic; self-cleaning effect
- 2-4 % diffraction of light. Allows more light and energy into the panel





### **Composition:**

Water-based formulation that consists of inorganic binder and innovative nano-titanium dioxide.

Contact angle: Antibacterial test: Antifungal test:

### **Technical Characteristic**

Appearance/Color pH Density Solubility in water Viscosity

#### **Application Note**

<4° (super-hydrophillic) 88.6% bacteria colonies reduction within 4 hours 81.3% fungi colonies reduction within 4 hours

> Milky white liquid 8.5 - 9.5 0.985 g/ml Completely miscible 12mPa.s at 25°C

Shake or stir the container before use. Prior to application clean the surface with water or a solvent using a microfiber cloth. The application surface should be dry and clean. Apply SHELL-Shield PV by HVLP sprayer. Two or three applications of a very thin layer are required. Between each application let the material dry (up to 10 minutes strongly dependent on the ambient temperature). Do not apply excess of the material on the glass surface. Total consumption rate of 30-38 m<sup>2</sup>/L is recommended. After the application let the material to cure on the surface without wiping or touching it. Only water is necessary for the cleaning of the coated surface.

Packaging	5 LITRES - 25 LITRES
Cleaning of Tools	Use tap water
Storage Stability	SHELL-Shield <sup>®</sup> PV is stable for 24 months when kept unopened in its original container, protected from frost and direct sunlight.

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