

## How to apply Ceracoat Ceramic self-cleaning

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### **CERACOAT ceramic glass SC (self-cleaning) sealing for PV systems (self-cleaning) or conservatories, glass facades**

**CERACOAT ceramic glass SC sealing** is a water-based system that protects PV panels from dirt and improves the light output. The applied material creates a hydrophilic film just a few nanometers thick on the surface. The self-cleaning process of the surface is generated by a photocatalytic process in the presence of natural sunlight. The surface tension in relation to condensed water is reduced above the air/water value, which results in the condensate running off completely (spreading).

Sun + rain clean the panels coated with **Ceracoat Ceramic SR coating** for years. Expensive cleaning and major loss of electricity production (due to dirty panels) are eliminated.

#### **A notice:**

This application recommendation is based on extensive research work, but does not exempt the user from testing the suitability of the product and process for his or her specific purposes. In particular, we are not liable for purposes and types of use that we have not expressly stated in writing. The information and instructions on the safety data sheet must be observed in any case.

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Dilution: None

Application quantity: approx. 20 ml. per m<sup>2</sup>

Hardening/drying: at least 1 hour, then approx. 24 hours for hardening

Processing temperature: +5°C to +25°C - protect from direct sunlight

Storage and shelf life: 6 months from opening, 12 months in sealed containers

Storage temperature: +5°C to +25°C, protect from direct sunlight and frost, store tightly sealed in the original container

### Application:

Wearing gloves is recommended. Application should be checked on an inconspicuous area or a sample area. Do not apply at temperatures below +5° C. Ensure good ventilation during processing. In case of skin contact, thorough washing with soap and water is required.

### Preparation:

The surface is carefully cleaned of dirt, oil and grease contamination. Organic cleaners (universal cleaners) and alkaline or acidic surfactant cleaners are recommended. Then rinse with enough water to remove surfactant residues. The cleaned surfaces must be clean, dry and free of grease before coating.

### Coating:

**Apply the sealing homogeneously to the surface using a spray device or similar.**

**After that, no polishing is necessary.**

### Drying:

Depending on the climatic conditions, the activation of the self-cleaning effect takes place within approx. 3 - 5 days under sunlight. If the effect wears off, you can refresh the effect as you did with the initial treatment.

### Proof of effectiveness:

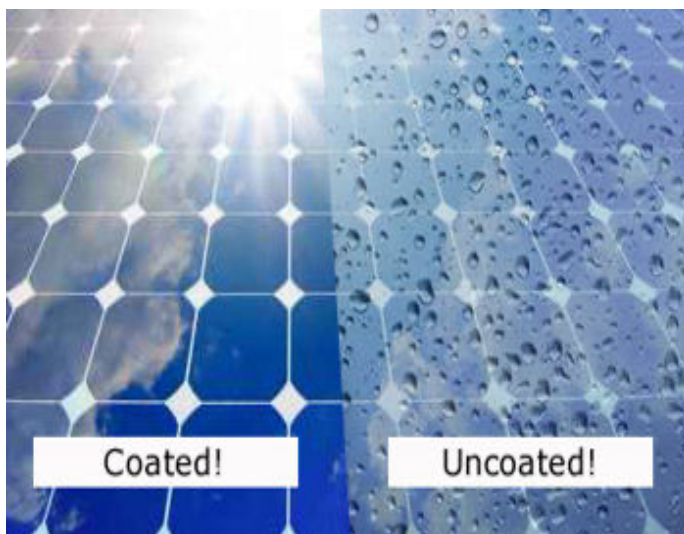
The spreading behavior (spreading/distribution of the water) can be checked by applying desalinated water in the form of a spray mist.

### Influence of the environment:

At temperatures above +25 ° C, coat smaller sections of the surface. Do not use below +5 °C.

### Cleaning the coated surfaces:

Since dirt, bacteria and limescale are washed away by the coating in combination with moisture and UV light, cleaning is no longer necessary. If it is cleaned (if the effect wears off, clean the surface with a sponge and a mild cleaning agent) e.g. once a year or every 2 years, no aggressive cleaning agents (extremely acidic, extremely alkaline, scouring milk) are required.



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