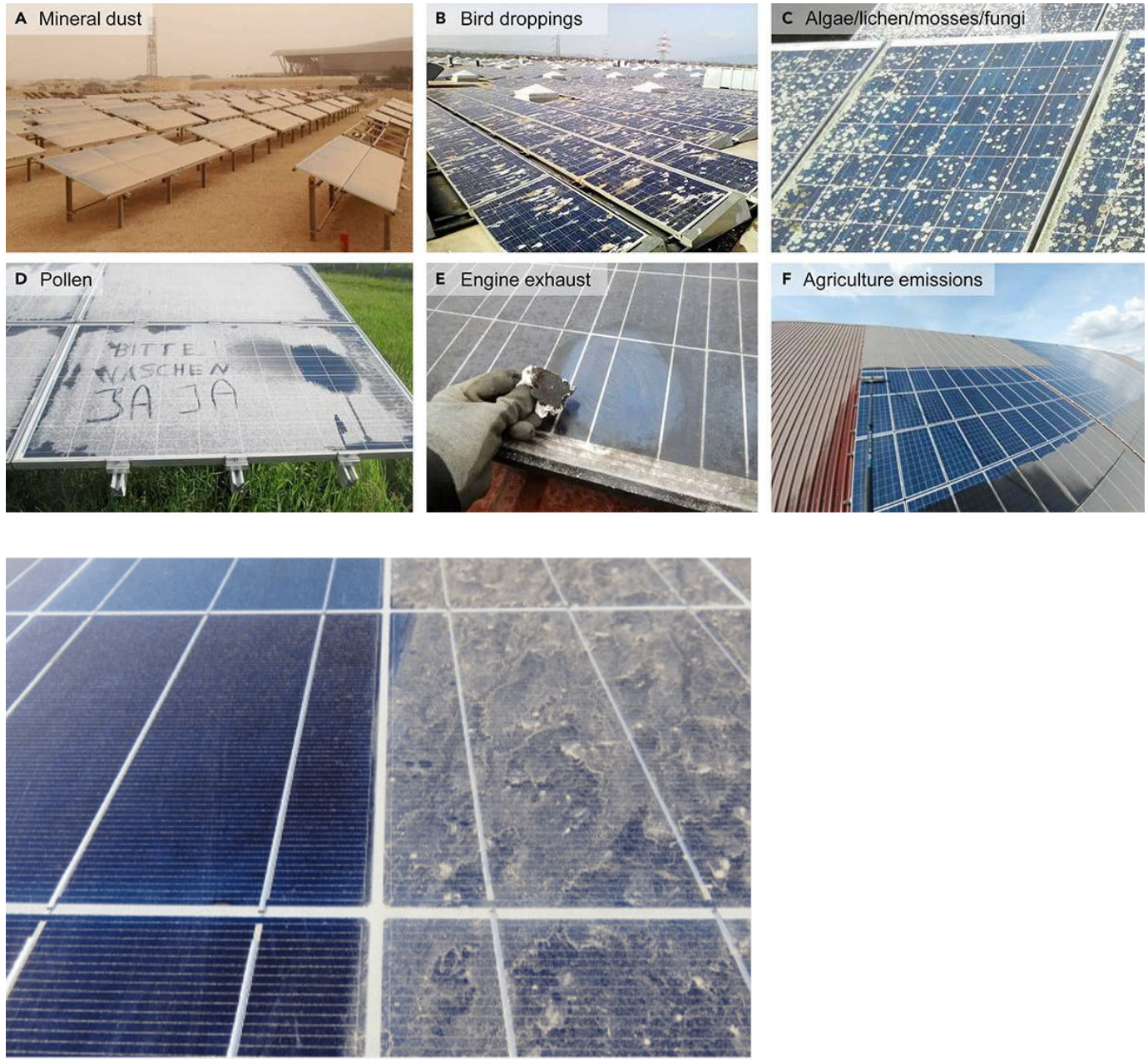


# How to apply Ceracoat Ceramic self-cleaning

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## CERACOAT ceramic glass SC (self-cleaning) sealing for PV systems (self-cleaning)

**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.



# How to apply Ceracoat Ceramic self-cleaning

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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. 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: Dirty panels already installed

**The surface is carefully cleaned of dirt, oil and grease. Organic cleaners (universal cleaners or Ceracoat cleaners for PV panels) and alkaline or acidic surfactant cleaners are recommended. Then rinse with enough water to remove any surfactant residue. The cleaned surfaces must be clean, dry and free of grease before coating. Cleaning is not necessary for new panels.**

## Coating:

**The coating is carried out by homogeneous application with a spray mist device (by machine or manually using the spray process), after which no polishing is necessary.**

## Drying:

Depending on the climatic conditions, the hardening occurs after approx. 24-48 hours when exposed to the outdoors under sunlight.

Depending on the sun's rays, the self-cleaning effect is activated within approx. 2-4 weeks.

If the effect wears off, you can refresh the effect as with the initial treatment.

## Proof of effectiveness:

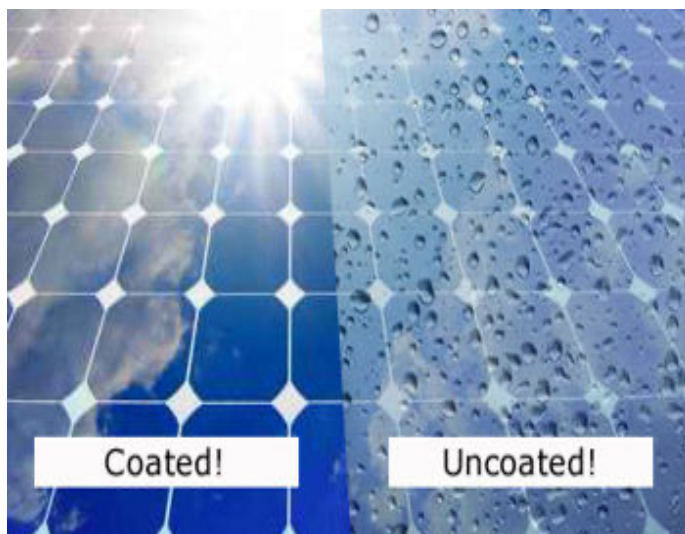
The spreading behavior (spreading/distribution of the water) can be checked by applying desalinated water in the form of a spray mist.

## 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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