



Solar Wash Protect 50

SWP is a concentrated, biodegradable, and innovative solution designed not only to clean a wide range of organic soiling from your solar panels, but also provides a protective antistatic coating that helps prevent future dirt and debris buildup.

Manual Brush

Spray, brush and rinse:

- dilute the product (1:50 ratio) and spray the solution on the panels with a manual or battery-operated sprayer¹.
- brush thoroughly without adding water
- rinse with pure water.

Dosing pump and WFP: Using a dosing pump with bypass², will allow you to choose when to have the Solar Wash Protect solution or pure water.

- start with the bypass closed and distribute the SWP solution evenly on the modules.
- close the water and brush thoroughly.
- to rinse, open the bypass and the water and brush until completely rinsed.

Rotative brush

Water driven brush and a dosing pump: similarly, to the WFP method:

- with the bypass closed, brush the SWP solution evenly on the panels
- open the bypass to rinse with pure water
- brush until completely rinsed.

In this specific case, since the quantity of SWP solution used will be higher than necessary, we recommend increasing the dilution to 1:100 or 1:150 (according to the soiling level and the quantity of water used).

Electric motor driven brush: it can be used in the same way as with a water driven brush, but it is also possible to spray first the SWP solution on the panels

- spray the SWP solution on the modules
- brush without water
- to rinse, open the pure water and brush until completely rinsed.

Robot

Spray first:

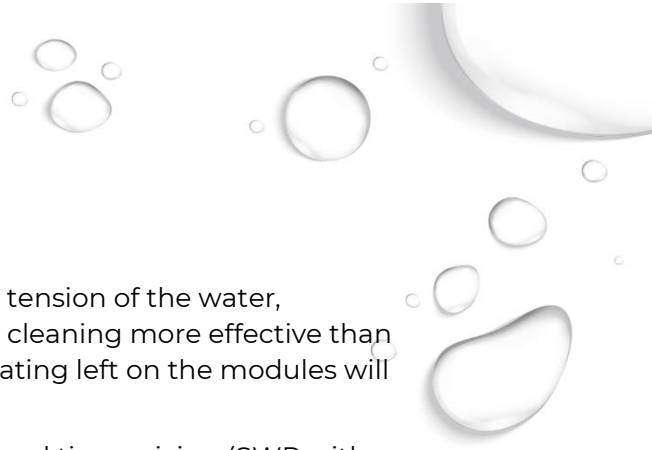
- dilute the product and spray the solution onto the panels
- brush and rinse simultaneously by turning off the water to the front brush (to brush without water) and rinse with the back brush. This will avoid the need of a second pass to rinse.

Mixed in the cleaning water: in severe soiling problems:

- mix the SWP directly into the cleaning water (the dilution can be between 1:50 and 1:100). We recommend the use of a dosing pump for real time mixing (SWP with cleaning water).
- brush the SWP solution using both brushes
- rinse with pure water. When using a dosing pump with by-pass, to get pure water, you just need to open the by-pass.

¹ E.g - Samurai

² E.g - Dosatron



SWP as a water additive: SWP will reduce the surface tension of the water, improving its penetration in the dirt thus making the cleaning more effective than just water. No rinsing is required but the antistatic coating left on the modules will be very limited.

- we recommend the use of a dosing pump for real time mixing (SWP with cleaning water) and a dilution of 1:500 (1kg of product for 500L of water).
- clean the modules as you would normally do with just water.
- rinsing is not required.

Brush on tractor

Spray first:

- Dilute the product and spray the solution on the panels with a sprayer³.
- Turn off the water to the brush and brush the modules.
- Turn on the water to the brush and make a second a pass to rinse the soiling and excess product from the modules.

Mixed in the cleaning water: in severe soiling problems:

- mix the SWP directly in the cleaning water and brush the modules. The dilution can be between 1:50 and 1:100 and it will be necessary to rinse the panels afterwards. We recommend the use of a dosing pump with bypass for real time mixing of the SWP with cleaning water. This way the water in the tank will remain without SWP and can be used to rinse the modules.
- To rinse, open the bypass of the dosing pump and brush the modules with water to remove the remaining soiling and excess product.

SWP as a water additive: SWP will reduce the surface tension of the water, improving its penetration in the dirt thus making the cleaning more effective than just water. No rinsing is required but the antistatic coating left on the modules will be very limited.

- we recommend the use of a dosing pump for real time mixing (SWP with cleaning water) and a dilution of 1:500 (1kg of product for 500L of water).
- clean the modules as you would normally do with just water.
- rinsing is not required.

³ e.g. Samurai or agricultural sprayer