TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX SOLAR CLEAN

PV Panel Cleaning Solution

Concentrated cleaning fluid for photovoltaic panels and CSP mirror / lens surfaces

Product Description

METOX SOLAR CLEAN is a concentrated cleaning fluid, diluted with water before use, developed for washing and maintaining photovoltaic solar panels. It quickly dissolves dust, bird droppings, pollen, organic films and industrial soiling on the panel surface and, after cleaning, leaves a protective effect that prevents dirt from adhering easily, so that power output does not drop rapidly due to soiling.

Washing with water alone does not dissolve organic and greasy soiling, and hard water leaves limescale spots that build up with every wash. METOX SOLAR CLEAN dissolves organic dirt and prevents limescale formation. It can also be used to clean the mirrors and lenses of Concentrated Solar Power (CSP) systems.

Features and Benefits

- **Energy yield:** removes soiling from the panel surface and restores output.
- **No limescale spots:** prevents mineral deposits even with hard water.
- **Antistatic:** delays re-soiling and extends cleaning intervals.
- **Surface-friendly:** does not damage the anti-reflective coating, silicone seals or aluminium frame.
- **Concentrated and biodegradable:** used diluted at 1/3 – 1/5.



Packaging

METOX SOLAR CLEAN is supplied in 30 kg cans and 1,000 kg IBC tanks.

Storage

- Store in the original, tightly closed packaging in a cool, dry place away from direct sunlight and frost and out of the reach of children.
- Store separately from alkaline products; do not transfer into metal containers.

Areas of Use

- Utility-scale solar power plants and agrivoltaic installations
- Rooftop commercial, industrial and residential PV systems
- Solar collectors, thermal panel surfaces and CSP mirrors / lenses
- Maintenance companies providing panel cleaning services

Technical Properties

Property	Value
Appearance	Clear liquid
Colour	Colourless
Odour	Slight, characteristic
pH	7 ± 1
Density (20 °C)	1.10 g/cm³
Solubility in water	Completely soluble
Dilution ratio (product : water)	1 : 3 – 1 : 5

Instructions for Use



Application example: strip cleaned with METOX SOLAR CLEAN next to the soiled panel surface

1. First remove coarse dust and loose dirt such as leaves from the panel surface dry.
2. Dilute METOX SOLAR CLEAN with water at 1/3 – 1/5; the heavier the soiling, the closer the ratio to 1/3.
3. Spray the diluted solution onto the panel surface or apply it with a soft brush, sponge or panel cleaning robot (your existing cleaning equipment can also be used).
4. Allow a short time for the soiling to dissolve and brush the entire panel surface with a very soft brush.
5. Rinse with plenty of water; if necessary, remove excess water with a soft squeegee and allow to dry naturally.
6. If heavy soiling persists, repeat steps 2–5.

Application notes

- **Timing:** work early in the morning, in the late afternoon or in cloudy weather while the panel surface is cool; at midday the hot panel dries the solution quickly and sudden cooling creates a risk of thermal shock. Do not apply in windy weather.
- **Equipment:** industrial sprayers, manual brushes, hoses, rotary brushes, cleaning robots and brush tractors.
- **Do not use:** abrasive pads, metal-bristle brushes, high-pressure jets or household detergents.
- **Cleaning frequency:** follow production data rather than a calendar; if output drops under the same irradiance, it is time to clean.

Follow the instructions in the Safety Data Sheet (SDS) for the safe use of the product. General product description based on our present knowledge; not part of the delivery specification.