



# ENERGY OPTIMIZATION SYSTEM

## Increases Solar Panel Output from 10-30%\*



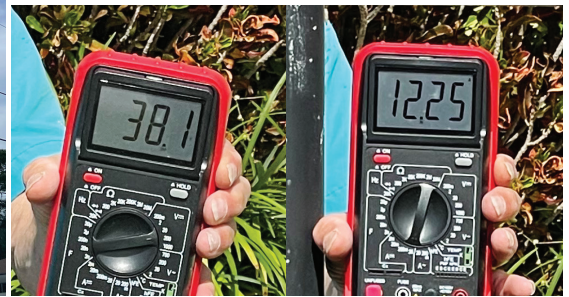
February 13, 2024. North Fort Myers, FL 82°F

Initial readings after cleaning at 11:53am  
under this deep blue sky.

Final readings after coating at 12:16pm under  
the same deep blue sky and temperature.



After cleaning: 35.6V x 10.16A = 362W



After coating: 38.1V x 12.25A = 467W

105 Watt increase  
**29% Improvement**

### Solar Panel Efficiency

Solar panel efficiency is negatively affected by increases in UV and cloud cover.

Of the light that reaches Earth's surface, Infrared Radiation (IR) makes up 49.4% while visible light provides 42.3% and Ultraviolet Radiation (UV) provides 8.3% of the total solar radiation. **Only the visible light produces electricity.**

**Why is this important?**

**SIMIX deflects up to 90% of UV rays that have been quantified as the main hindrance of electricity production, while at the same time allows 100% of the visible light through.** SIMIX unique combination of technologies allows more visible light to reach the PV cells improving your panels performance. Contrary to sunglasses which block UV, IR and visible light, SIMIX clearcoat deflects the UV rays but allows visible light to enter.

\*Note: Results will vary depending on the time of the day and cloud cover.

# SIMIX protects your solar panels and improves performance

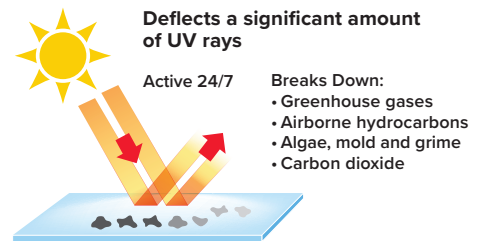
## What is SIMIX?

SIMIX Ceramic Clearcoat is a permanent non film-forming, super-hard liquid glass that will never yellow, chip, peel or crack. Just like in glass, the primary ingredient in SIMIX is silica (sand). That is mixed with potassium and lithium for hardness and conductivity. SIMIX pulls heat from the panel. It is not an insulator like all other traditional solar panel coatings on the market. SIMIX prevents static charge build-up virtually eliminating dust attachment.

- Permanent ceramic clearcoat
- Prevents dust from attaching
- Stays cleaner longer
- Reduces PM time
- Prevents static charge build-up
- Stops UV oxidation
- Breaks down greenhouse gases
- Prevents salt damage
- Water-based • Zero VOCs • No odor
- Easy application • Fast drying

## What is SPOT-ON?

**Sustainable Photocatalytic Oxidation Technology (SPOT)** is what we call the titanium dioxide inside SIMIX Coatings and Cleaner. Titanium dioxide is a safe, naturally occurring compound that deflects a significant amount of UV rays on the Solar Panel, both of which restrict the output of the panel and allows more of the photons or natural light to enter the panel which is what produces the power.



### Mixing chart

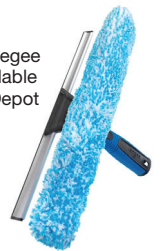
Distilled or RO water	SIMIX	Total	Coverage/per mixed gallon
20 Gallons	1 Gallon	21 Gallons	11,827 sq. ft.
10 Gallons	1/2 Gallon	10.5 Gallons	5,913 sq. ft.
5 Gallons	1 Quart	5.25 Gallons	2,956 sq. ft.
122 Ounces	6 Ounces	1 Gallon	563 sq. ft.

**You will need:** Pump-up sprayer, microfiber window cleaner scrubber, squeegee, distilled or RO water

1 Gallon of SIMIX makes **21 Gallons** of coating. Easy application is sprayed, mopped, and then squeegeed. (4 coats per panel).

Standard panel size: 39x 65/17.6 sq. ft.  
Depending on temperature and humidity conditions you can expect to coat 112-224 panels per gallon of concentrate.

Scrubber/squeegee combo kit available at The Home Depot



### Cleaning and Coating Instructions

**Cleaning Instructions:** To clean panel, use 1 small scoop (scoop included) SIMIX Multi-Surface Cleaner/1 gallon of water. For heavily soiled panels use 2 small scoops. Clean using the microfiber window cleaner scrubber, then squeegee dry.

Reuse microfiber window cleaner scrubber to apply coating: Clean scrubber and squeegee with SIMIX Multi-Surface Cleaner and rinse until water is clear.

**Coating Instructions:** Thoroughly wet surface with SIMIX Multi-Surface Ceramic Clearcoat solution using the pump-up sprayer (approximately 4-6 oz. per standard commercial panel). Using the microfiber window cleaner scrubber, work solution left to right, then up/down motion using pressure to promote adhesion of coating to panel surface. SIMIX coating will bond to panel surface leaving behind excess water. Squeegee off excess water. Allow to visibly dry. Repeat to achieve a total of 4 coats.

**Clean-up:** Clean tools with SIMIX Multi-Surface Cleaner. Rinse after cleaning.

**CAUTION:** Do not apply in direct sunlight. Surface must be ambient temperature. If applied in direct sunlight or on a hot surface, product will set up too quickly.



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MADE IN USA

SMX181