

## Product Description

DryWired® Perma-Clean Solar 2.0 is an transparent, single-step coating designed to increase the efficiency of solar panels. Perma-Clean Solar 2.0 alters the electrical resistance of a surface to give it antistatic properties preventing dust and debris build up. In addition, the coating exhibits a hydrophilic, self-cleaning property that allows surface contaminants to be easily removed with only water. These properties not only allow for an increase in photovoltaic efficiency, but also reduce the amount of maintenance required.

## Intended Uses

- Solar panels

## Features

- Superhydrophilic
- Antistatic
- Self-cleaning
- Transparent
- Weather-resistant
- Strong adhesion to substrate
- Thickness: 100 nanometers
- Single-step application
- Cleans easily with water
- Reduce maintenance cycles

## Application

<b>Surface Preparation</b>	A surface degreaser absent of detergents, such as DryWired® Glass Cleaner, can be for heavily soiled surfaces. If glass is not heavily soiled, a basic alcohol such as an isopropyl alcohol (IPA), can be used.
<b>Application</b>	Perma-Clean Solar 2.0 is a 2-Part solution that is applied in a single step with a squeegee and cloth. For detailed mixing and application instructions, reference the Perma-Clean Solar Application Manual.
<b>Dry Time</b>	2 minutes
<b>Cure Time</b>	14 days
<b>Coverage</b>	10 -20 g/10ft <sup>2</sup> (1m <sup>2</sup> ) – dependent on surface temperature during application.
<b>Removal &amp; Clean up</b>	Immediate removal of the coating can be accomplished by wiping with water and a cloth. If coating needs to be removed after drying, it is recommended to use DryWired Glass Cleaner, or another abrasive glass cleaner like cerium oxide or aluminum oxide. The squeegee can be rinsed with water immediately after use to remove any remaining coating solution. Aluminium foil and microfiber cloth should be disposed of and should not be reused.

## Safety, Handling & Storage

When stored according to recommended conditions the safety data sheets, shelf life is thirty six (36) months from date of manufacture. Once the 2 parts have been mixed, the solution will not last more than a couple of weeks depending on storage conditions. If the solution appears gel-like, it is no longer usable. Before using this product, please read the current product Material Safety Data Sheet (available through your sales representative or at [www.DryWired.com](http://www.DryWired.com)) and the precautionary statement on the product package. Follow all applicable precautions and directions.

## Packaging

Perma-Clean Solar 2.0 is available in:

- 1 Liter
- 20 liter HDPE tote

## Additional Information

To request additional product information or sales assistance, contact DryWired at 1-800-581-4528 or visit [www.drywired.com](http://www.drywired.com).

## Physical Properties

Property	Solution - Liquid
Appearance	Gray/Green Liquid
Solvent	Water
Odor	Unscented

Property	Solution - Base
Appearance	Semi-transparent
Solvent	Methanol
Odor	Alcohol
Density	0.81 ± .01g/cm <sup>3</sup> at 20°C
Boiling point of solvent	64.7°C
Flashpoint	12.0°C
System	2-part

Property	Coating
Appearance	Invisible
Coating Thickness	100 nm
Weather Resistance	1,500 hours passed (ASTM D7869-17)
PV Efficiency Increase	10.5%, 6 months - Ongoing (ASTM E2236-10)

All statements, technical information and recommendations contained in this document are based upon tests or experience that DryWired believes are reliable. However, many factors beyond DryWired's control can affect the use and performance of a DryWired product in a particular application, including the conditions under which the product is stored or used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired product to determine whether it is fit for a particular purpose and suitable for the user's method of application. No warranty or condition, expressed or implied, is given regarding the accuracy of the statements, technical information or recommendations contained in this document. Except to the extent prohibited by law, DryWired will not be liable for any losses or damages arising in any way from the DryWired product including, without limitation, any direct, indirect, special, incidental or consequential damages, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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