

Product Information

Nasiol SolarCoat FC is a hydrophobic and oleophobic transparent coating that doesn't change the optical properties of solar panels. It forms an ultra-thin, invisible layer that ensures your panels stay cleaner for a longer period with non-stick properties.

Application Surfaces

- Glass, thin-film flexible or other polymer solar panels
- Suitable for all residential, commercial, industrial solar panels

Benefits & Key Features

- o Liquid & Dirt repellent.
- Hydrophobic & Oleophobic.
- Easy to clean / Self-cleaning effect.
- Anti-soiling / Non-stick properties.
- Improves PV efficiency.
- o Durable for years.

Instructions

Solar panels must be completely clean, dry and free of all grease, dirt, oils, scale residue and other contaminants prior to application.

For the installed panels, do not apply during the hottest hours of the day. Application surface should be cool.

Manual Application

*It is recommended to try on a small area before covering the entire surface.

- Product is sprayed onto the surface in an essential amount with a trigger bottle.
- The surface should be buffed immediately with a dry, lint-free microfiber cloth in circular motions until there is no haze on the surface.

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Curing

Room Temperature Curing

Dry to touch: 4 h at 23°C (73.4°F) - 50% RH

Fully curing: 24 h at 23°C (73.4°F) - 50% RH

Accelerated Curing

Dry to touch: 5 min. at 150°C (302 °F)

Fully curing: 30 min. at 150°C (302 °F)

*Curing time and temperature can be varied according to the heat resistance of the surface to be coated.

Application Tips

Ensure that the temperature and relative humidity (RH) of the application space are as close as possible to the given values to achieve the highest product performance.

If the ambient temperature or relative humidity value is higher than the suggested intervals/values, the product may cure faster than expected.

Avoid direct sunlight during the application and only work on cool surfaces.

If required, wash and rinse the application surface thoroughly to remove stubborn dirt, grime, and other contaminants by using Nasiol SolarRinse. Finally, prepare the surface by using Nasiol SolarClean to improve the bonding performance of the solar panel coating. Ensure that there isn't any residual contamination and dry the surface with a lint-free microfiber cloth.

Shake the product gently before use.

Do not work on areas larger than 1 m² per session. Coincidence of coating areas during the application does not constitute any problem.

Before using the product, wear protective nitrile gloves.

Do not forget to keep the lid closed during the application.



To make the most of microfiber cloths, fold each one four times before application, and do not reuse the side of the cloth you used.

If the coating dries by itself on the surface until you buff or if you don't buff the surface sufficiently and because of that a hazy look occurs, immediately apply a little bit more product onto that spot and buff it again to solve the visual problem.

<u>Curing</u>

When the coated surface is dry to touch, it can be handled/packed. Fully curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, keep the coated surface away from water/contamination for 24 hours and don't perform harsh tests on it.

Specifications

Packaging	150-500 mL 1-5-30 L	
Appearance	Colorless Liquid	
Chemical Resistance	12>pH>1	
Dry Film Thickness	200-250 nm	
Consumption per Unit Area	5-6 mL/m ²	
Density @23°C (73.4°F)	0.80 g/cm ³	
pH Value	4.7-5.0	
Application Temperature	5°C-30°C /	
	41°F- 86°F	
	(≤50% RH)	
Temperature Durability	250°C / 482°F	
Water Contact Angle	105° @10 μL	
Water Contact Angle After		
"3000" Wet Scrub	97° @10 μL	
(ISO-11998:2006)		
Water Sliding Angle	13° @60 μL	
Oil Contact Angle	75° ±3 @10 μL	
(n-hexadecane)		
REACH Compliance	Yes	

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Recommended Cloth Specifications

Model	Nasiol Microfiber Clothes
Blend	80% Polyester & 20% Polyamide
Weight	320 gsm

Durability

Normal conditions (-20°C to +35°C /-4°F to 95°F
pH<12)
3 years

Removal

Once the product is cured, it is very difficult to remove it from the surface. In such a case, product removal can only be achieved by polishing with a special cutting compound. To avoid any harmful consequences generated due to the surface correction process, read the instructions carefully and watch application videos on Nasiol® web site.

Storage

To achieve a high quality of coating, keep the containers tightly closed in a dry, well ventilated space away from heat and ignition sources, stored at -3°C to +30°C / 26.6 °F to 86 °F. Shelf life of product is 12 months from date of production when stored in unopened container under suggested storage conditions. If you keep the bottle tightly closed during and after each use, you can continue to use the product until the expiration date.

Disclaimer

The technical information described in this document is based on tests and other practical experience that Nasiol® believes are reliable. Nasiol® cannot guarantee anything but ready to use quality of the product at the time of shipment, disclaims any liability for product performance and incidental or consequential damages,



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according to self-implementation within the user's knowledge, beyond the manufacturer's control. Please refer to the Safety Data Sheet (SDS) before use of product.

Users should consult Nasiol® for guidance on the suitability of specific applications. Nasiol® reserves the right to change the given data without further notice.