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## Application Technique for Nanoman Solar

**CONGRATULATIONS** on taking the first step in ensuring that your solar panel surfaces are protected against the elements and continue to perform at their optimal efficiency. Please follow these simple instructions to ensure you maximize the performance of NANOMAN Solar.

### Pre Cleaning:

To ensure maximum performance, it is important that the surface of each solar panel is **completely** clean prior to application. We recommend the use of **NANOMAN Pre Cleaner** (even on new panels) to remove grease, dirt and other staining. However if the surface is particularly stained, a stronger cleaner is recommended prior to the use of the pre cleaner. NANOMAN Pre Cleaner or Methylated Spirits should be used as a final step to rid the surface of any residues and will ensure the surface is dry prior to application. Do not use an abrasive cloth, which may result in scratching the surface.

### Application:

- **In dry conditions**, spray on a small amount of **NANOMAN Solar** across a small area of the solar panel.
- Using a clean microfiber cloth, pad or cotton towel, rub the coating over the surface area using a circular motion.
- Repeat this technique across the entire surface, ensuring that the whole surface area is covered evenly.
- A slow rotation polisher may be used to cover large areas more efficiently.
- **Use sparingly – you only require about 10-12ml per m<sup>2</sup>.**
- Allow to dry for 30-60 minutes (more time is required in high humidity).
- After drying, use a different dry microfiber cloth to polish and remove any remaining residues. NANOMAN pre cleaner may be used here to clean the surface properly and strengthen the durability of the Nanoman coating.

### Curing:

The surface should be kept dry for 30-60 minutes after application although it is water resistant immediately. It will reach its optimal performance after 24 hours.

### Cleaning/Maintenance of Coated Surface:

Your Solar Panels will still occasionally need to be cleaned to ensure maximum efficiency. However, with **NANOMAN Solar** applied, there is no need to use expensive and environmentally unfriendly cleaners and detergents. Nor do you need to clean as often. To maintain the hydrophobic effect, simply wash with fresh water and wipe down using a soft towel after use. **Do not use paper towels or abrasive cloths that are likely to scratch the surface and weaken the nano-coating.**

### IMPORTANT:

- The wearing of gloves is recommended.
- Please ensure the area being treated is well ventilated.
- Do not expose to naked flame and do not apply or store in direct sunlight.
- Store in a sealed container and keep away from children.
- In the event of eye contact, wash out immediately with water.
- Do not swallow. Seek medical advice if necessary.
- Ensure adequate safety measures are in place if applying in situ.

For further advice and to view other products in the NANOMAN range, please visit us at [www.nanoman.com.au](http://www.nanoman.com.au).

## FAQ's

### 1. How does Nanoman Solar work?

**Nanoman** sealants contain specifically modified functional nanoparticles that self assemble and produce a two-dimensional net matrix on the surface that becomes both hydrophobic (water repellent) and anti-stick. Water simply pearls off the coated surface taking dirt and other impurities with it. These self-cleaning properties mean that your solar panels will work more efficiently, producing more electricity than untreated panels.

### 2. Will Nanoman harm my surfaces?

Definitely not. In fact **Nanoman** products create a protective barrier that will actually strengthen the surface. This barrier is only 50-60 nanometers thick, which is invisible to the human eye. **Nanoman** is UV resistant, anti-corrosive and has a high resistance to scratches and abrasions.

### 3. What is the durability of Nanoman Solar?

This will depend on the condition of the surface being treated (new or already being used) and environmental factors. However generally the coating will last for 3 to 5 years. We recommend that the coating be reapplied after this time to ensure continued high efficiency.

### 4. Is the sealant biologically safe?

Nano sealants have been tested by an independent institute and were designated biologically safe, non allergenic and ecologically beneficial. Notwithstanding this, we recommend the wearing of gloves and that the work area be sufficiently ventilated. As with all chemicals, **Nanoman Solar** should not be ingested and in the event of eye contact, washed out immediately in warm water.

### 5. Does temperature affect Nanoman Solar?

**Nanoman** is stable at varying temperatures but is best applied at temperatures above 4° Celsius. Recommended curing times will increase with increased humidity. Nanoman should be stored in a sealed container, away from light, ideally within the temperature range +5° to +25° degrees Celsius. The treated surface will be frost, UV and temperature resistant.

### 6. How can I seal large surfaces – by hand or by using a sprayer

It doesn't matter which way the sealant is applied. For larger areas, a mechanical sprayer can be used to apply the product and then either rubbed in by hand or by using a low speed mechanical polisher.

### 7. Can I apply Nanoman products on surfaces that have been sealed with other products?

Yes, but the surfaces should be pre-cleaned thoroughly using either **Nanoman Pre-Cleaner** or Methylated Spirits. The surface to be treated has to be clean, completely dry and grease free prior to any application of **Nanoman** sealants.

### 8. How do I clean surfaces treated with Nanoman Solar?

**Nanoman** products are designed to cut your cleaning time significantly and eliminate the need to use aggressive cleaners that are harmful to our environment. Note that aggressive chemical cleaners will actually reduce the lifespan of the Nano coating. We recommend cleaning only with water and wipe down with a soft cloth or towel. Occasionally, you may wish to use a mild/neutral cleaner to replenish the effectiveness of the non-stick effect.

### 9. How long does it take for the coatings to set?

**Nanoman Solar** requires 30 – 60 minutes to cure during which time the surface should remain completely dry and untouched. In more humid conditions, curing time will be longer. After curing, the coated surface should be polished or wiped down with a soft cloth and Nanoman pre-cleaner to remove any remaining silans or residue. The surface will be at its most effective after 24 hours.



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