

HYDROPHILIC SELF-CLEANING NANO COATING FOR SOLAR PANEL

• NCG-1 •

1. Product Description

This super hydrophilic coating is produced via a complex reaction process, forming a wear-resistant, hydrophilic film on substrates. It features super-hydrophilic, self-cleaning, dust resistance, wear resistance.

2. Product Applications

Suitable for outdoor solar photovoltaic panels, glass curtain walls, and various glass surfaces, providing dust resistance and self-cleaning functions to maintain surface cleanliness and performance.

3. Construction Guidelines

- Thoroughly clean the substrate surface until it reaches a hydrophilic state. Ensure the surface is clean and dry, free of dust, oil, wax, etc., to guarantee the coating effect.
- Apply the coating using methods such as brushing, wiping, or spraying, ensuring even application.
- Spraying is recommended for better and more uniform results.

4. Precautions

- Curing time: Surface drying takes approximately 30 minutes. Do not touch the coating during curing.
- The dosage may vary slightly depending on the substrate, construction environment, and operators.
- Maintain ventilation during use. It is advisable to use up the product after opening the bottle. When taking out the product for use, store the remaining amount in a sealed container promptly.
- If accidentally in contact with the skin, clean with alcohol. If it comes into contact with the eyes, rinse thoroughly with plenty of clean water and seek medical attention immediately.



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5. Product Parameters

Classification	Item	Index	Test Method
Physical and Chemical Properties	Appearance	Yellow - green semi - transparent liquid	Visual inspection
	Specific Gravity	0.90±0.02g/mL	GB/T 6750 - 2007
	pH Value	≤2.0	GB/T 9724 - 2007
	Viscosity (23°C±2°C)	11 - 13s	GB/T 1723 - 93
Coating Properties	Hardness	≥3H	GB/T 6739 - 2006
	Adhesion	Grade 0	GB/T 9286 - 1998
	Surface thickness	10 -15nm	Q/NY 1203 - 2024
	ΔT(380 - 1100nm)	≥2.0%	JC/T 2170 - 2013
	Anti - reflection Effect (400 - 700nm)	≥2.0%	Q/NY 0801 - 2024
	Water Contact Angle	Initial ≤10°; Long - term ≤25°	GB/T 30447 - 2013
Other Properties	Abrasion Resistance (500g weight pack with dust-free cloth)	10000 cycles	Q/NY 0902 - 2024
	Neutral Salt Spray Resistance Test	96h	JC/T 2170 - 2013



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