

U2000

超疏水抗污防覆冰涂料

Ultra-hydrophobic anti-fouling ice coating

适用于电 网输电线路、外绝缘（绝缘子、套管及瓷套等）、5G雷达天线罩



Provider of comprehensive solutions for
concrete disease control

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Ultra-hydrophobic anti-fouling ice coating is made of natural nano-materials modified by a special process. It can form a layer of superhydrophobic and self-cleaning coating on the surface of substrate by spraying. Applicable products: antennae, bridges, wind turbine blades, buildings, glass, steel, wood and other superhydrophobic anti-icing.

产品特性

Product features

- ◆ One-component spray-type coating, a spray can achieve wear-resistant superhydrophobic anti-icing effect.
- ◆ Friction-resistant, the effect can be maintained for 3 years after construction.
- ◆ Superhydrophobic, contact angle (CA) >160°, rolling angle (SA) <2°, water droplets roll off the surface easily.
- ◆ Super self-cleaning, self-cleaning level 1. Ash and coating contact surface is small, weak adhesion, non-staining ash; heavy dirt environment, ash in contact with water after rapid contraction, can not form a "dirty flash discharge dry area" .
- ◆ Anti ice and snow, ice and water mixtures are more difficult to stay on the surface of the superhydrophobic coating, no ice; or to extend the initial time of icing, reduce the amount of ice. Ice and coating contact surface is small, weak adhesion, easy to de-ice; de-icing, immediately restore superhydrophobic.

适用范围

Scope of application

- ◆ Power grid: actively resist the damage caused by freezing rain, ice and snow disaster weather on transmission lines, external insulation (insulators, bushings and ceramic bushings, etc.), towers, greatly improving the anti-fouling flash capacity.
- ◆ Radome: 5G, radar radome, can solve the signal rain degradation effect caused by rain and snow weather, greatly improve the self-cleaning ability, and actively resist the signal attenuation caused by rain and snow weather.



性能指标

Performance metrics

Test item	Technical index
Mechanical reciprocating friction	2.3KPa 1000 grit sandpaper 40cm/cycle 300 cycles SA=7°
Tape peeling	3M adhesive tape 2.3KPa pressure 5S 50 times SA=6.5°
Water pressure impact resistance	50KPa water pressure, coating 20cm2minSA=1° from outlet
Resistant to strong acid (1M HCl)	24h SA=1°
Resistant to strong alkali(1M NaOH)	6h SA=75°
Neutral salt(1M NaCl)	24h SA=1°
Resistant to salt spray	40dSA = 10° (5 wt% NaCl salt spray, 35°C)