

TESTED HIGH
ANTIABRASION
PERFORMANCES

ANTICORROSION
UP TO +300%

PROTECTION FROM HIGH
CORROSIVE SALTY WATER

Proprietary Nanotechnology - related patents: WO/2010/064274 / US 6,878,767 B2 / CA 2,743,597
Environmentally friendly underwater coating - related patent: WO/2009/IB51945 / US 8398759

NANTO WIND PAINT

Nanotechnology Based High Performance Coatings

Offshore Wind Turbine

Proprietary nanotechnology based protective coatings for the wind energy industry.

Offshore wind farms provide clean and renewable energy thanks to the high percentage of wind out of the sea.

However they are exposed to high level of corrosion and erosion, mostly because of sand and salty water.

Nanto Paint® products portfolio includes a new outstanding patented coating solution for the corrosion and abrasion resistance in offshore wind turbines, together with anti-stick and anti-ice properties.

Nanto Paint® nanoclay reinforced coating system enhances barrier properties and guarantees an environmentally friendly solution to corrosion and abrasion in wind turbines.

Patented nanotechnological materials allow higher durability performances for a long-term protection and reduced maintenance costs and intervals.

Nanto Paint® is the unique brand of Nanto Cleantech Inc, which combines traditional industrial coatings with the finest cutting-edge nanotechnology.

Nanto Cleantech is a US based technology company which provides advanced material and smart functional coatings.

Nanto Cleantech Inc develops and manufactures environmentally friendly materials based on nanoclay reinforcement materials. The company's anticorrosion technology won in 2012 the Corrosion Innovation Award from NACE, the world leading organization focused on anticorrosion.

Innovation and sustainability are our key drivers.

All Nanto products are developed using proprietary nanotechnology, which allow to combine durability and cost-effectiveness and minimize or eliminate the use of hazardous materials.



Nanto Paint® is a brand of Nanto Cleantech Inc - United States
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Offshore Wind Turbine



NPC 11000

NPC 11000 series is the ideal green solution to protect all offshore wind turbine components from high corrosive environments.

NPC 11000 series offers up to 300% anticorrosion durability for topside and underwater and high antiabrasion resistance performances for rotor blades in accordance with ASTM D4060 test referring to a selected abrasion cycle (CS10, 60rpm, 1000 rev and 1000g).

The new technology inside is C5M High certified according to ISO 12944.

Nanto Paint® also supplies an environmentally friendly anti-fouling coating for underwater applications, which is biocide-free to respect the natural sea life.

SYSTEMS (typicals)	PRIMER	INTERMEDIATE	TOP COAT/ FINISHING
External Underwater	NPC 11001		NPC 11006 NPC 11014
Splash zone	NPC 11001		NPC 11006 NPC 11014 NPC 11015
External Topside	NPC 11001	NPC 11002	NPC 11003
Internal and accessories	NPC 11004	NPC 11005	NPC 11003 NPC 11023
Rotor blades	NPC 11001WB		NPC 11003WB

PRODUCT	DESCRIPTION	BENEFITS
NPC 11001	Two component epoxy polyamide primer, certified for high corrosive environment. Suitable for use on topside and interior areas.	High solidity, surface tolerant, very good adhesion.
NPC 11001WB	Two component epoxy polyamide primer, certified for high corrosive environment. Suitable for use on topside and interior areas.	New technology antierosion and antiabrasion, suitable for rotor blades applications
NPC 11002	Two component surface tolerant epoxy intermediate. it can be applied on topside, interiors and living areas.	Surface tolerant and applicable to low temperature
NPC 11003	Polyurethane top coat recommended for topside.	UV protection, long lasting gloss, abrasion resistant
NPC 11003WB	Polyurethane top coat recommended for topside and rotor blades.	UV protection, long lasting gloss, abrasion resistant
NPC 11004	Bi-component epoxy primer for medium corrosive environment, such as interior and living areas. Suitable for new painting system and maintenance work.	Abrasion resistant, adhesion to steel
NPC 11006	Two component High solid epoxy coating.	Excellent corrosion protection, Very high liquids resistance
NPC 11014	Two component epoxy finishing, solvent free.	Immersion resistance, harsh environment conditions resistance
NPC 11015	Two component solvent free epoxy, suitable to be applied in confined spaces.	Long term corrosion protection, can be applied on damp surfaces
NPC 11023	Polyurethane finishing, ideal for new painting system and maintenance work.	Long lasting gloss, color retention



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