

TESTED HIGH  
ANTIABRASION  
PERFORMANCES

ANTICORROSION  
UP TO +300%

Proprietary Nanotechnology - related patents: WO2010/064274 / US 6,878,767 B2 / CA 2,743,597

# NANTO WIND PAINT

Nanotechnology Based High Performance Coatings

## Onshore Wind Turbine

**Proprietary nanotechnology based protective coatings for the wind energy industry.**

Onshore wind farms are the most affordable renewable energy source, which contribute to avoid CO<sub>2</sub> and pollution problems. To protect onshore wind turbine from challenging weather conditions (UV exposure, chemical pollution, ice), Nanto Paint® products portfolio includes a new outstanding patented coating solution for the corrosion and abrasion resistance in onshore 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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## Onshore Wind Turbine



## NPC 6000

**NPC 6000 series is the ideal green solution to protect all onshore wind turbine components from high corrosive environments.**

NPC 6000 series offers up to 300% anticorrosion durability for topside 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.

NPC 6000 series ensures an increased barrier effect against UV and chemicals and an unbeatable gloss retention and aesthetics.

SYSTEMS (typicals)	PRIMER	INTERMEDIATE	TOP COAT/ FINISHING
External Topside	NPC 6001	NPC 6002	NPC 6003
Internal and	NPC 6004	NPC 6005	NPC 6003
Rotor blades	NPC 6001WB		NPC 6003WB

PRODUCT	DESCRIPTION	BENEFITS
NPC 6001	Two component high solid epoxy primer, certified for high corrosive environment. Suitable for use on topside and interior areas.	High coverage rate, surface tolerant, very good adhesion.
NPC 6001WB	Two component high solid epoxy 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 6002	Two component surface tolerant epoxy intermediate. It can be applied on topside, interiors and living areas.	Surface tolerant and applicable to low temperature
NPC 6003	Two component polyurethane top coat recommended for topside.	UV protection, long lasting gloss and color retention
NPC 6003WB	Two component Polyurethane top coat recommended for topside and rotor blades.	UV protection, long lasting gloss, abrasion resistant
NPC 6004	Two pack epoxy polyamide primer for medium corrosive environment. Suitable for new painting system.	Abrasion resistant, adhesion to steel
NPC 6005	Two component High solid epoxy coating.	Increased barrier protection against chemicals, moisture and abrasion
NPC 6023	Two component aliphatic polyurethane top coat. Wide compatibility with pure or modified epoxy primers and intermediate coats.	Gloss and color retention, UV and weather resistance



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