



NPC 7000

Nanotechnology Based High Performance Coatings

Nanto Paint® is proud to introduce a new outstanding environmental friendly coating line based on patented proprietary nanotechnology to protect your maritime assets from corrosion, fouling and to reduce skin friction.

The Nanto Paint® Shipping Product Portfolio

Deep sea is one of the toughest environments. Corrosion is the result of exposure to salt water, moisture, UV-light, high temperature and oxygen, while fouling can compromise ship's speed, which results in more fuel consumption. Following new environmental regulations, there is an emerging interest in green solutions to improve performance of the ships and reduce the carbon emissions at the same time. NPC 7000 series is Nanto Paint® coating range, free of biocides and metals, dedicated to match the specific protection needs of any part of the vessels.

NPC 7000 ensures a long lasting anticorrosion effect, up to three times more than traditional coatings. Moreover, thanks to a novel patented proprietary nanotechnology, it has properties of reduce friction, to improve vessel's speed and save fuel.

Patented technology provided by



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Advantages

Ten years of research, design and development.

- Research activities have been done in collaboration with the best European and Israeli Institute of Technology, such as Shenkar College of Tel Aviv, IFAM, UCLM, CSIRIO, University of Trieste, University of Trento, RINA.
- Development is dedicated to proprietary IP products in coating and plastics.
- Design is developed by a Nanto team work with excellent skills in chemical, engineering, nanotechnology and biotechnology, marine experts and certified inspector.

Nanto Paint® coatings are designed with **patented nanotechnologies**, already granted in more than 100 countries worldwide, which has been awarded from NACE with the Corrosion Innovation Award for the "Best Innovative Product of 2012" and with the World Petroleum Council Excellent Award in 2018 for the first three "Disruptive Cost-Effective Technologies for Industrial Applications".



Competitive:

- Less number of coats required;
- Long lasting protection;
- Long lasting aesthetics;
- Strong abrasion and mechanical resistance.

Fuel saving:

- Smooth hull system with consequent drag reduction;
- Reduction on bunker consumption and green house gas emissions.

Environmental Impact:

- Zero silicone oil & zero biocides;
- CO₂ and VOC reduction.

Drydock costs:

- Less number of coats means less time for drydock activities;
- No need of masking.



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Locations: New York | Pittsburgh | Tel Aviv | Trieste



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APPLICATION AREA	PRIMER	INTERMEDIATE	TOP COAT/FINISHING
Topside and superstructure	NPC 7001	NPC 7002	NPC 7003
Outdoor decks and accessories	NPC 7001	NPC 7002	NPC 7003
Interior dry visible area	NPC 7001	-	NPC 7003
Bilges	NPC 7001	-	NPC 7002
Fresh water tanks	NPC 7001	-	NPC 9014

NPC 7001

Two component epoxy polyamide primer.

High solid and very good adhesion. It delivers an outstanding anticorrosion barrier effect to the topside and superstructures.

NPC 7002

Two-components surface tolerant epoxy intermediate.

High percentage of solid. It can be used as primer or intermediate and ensures an excellent adhesion even at higher thickness, delivering a superior durability.

NPC 7002 Aluminium

High build epoxy finishing with aluminium powder with excellent corrosion resistance for C5M-High environment. Suitable as finishing for not visible parts of decks and holds and as intermediate for the hull, where aesthetic is not key, it provides an excellent anticorrosion protection, UV protection thanks to its aluminium content, hydrophobic and oleophobic action against chemicals.

NPC 7003

Polyurethane topcoat paint designed for topside and interiors. Thanks to its high tech modified resin and its nanoparticles content it ensures an excellent UV resistance and an anti-yellowing action, thus preserving the aesthetics.

NPC 9014

Epoxy finishing coating, non-toxic and thinner-free.

The product is suitable for protecting inner surfaces of tanks and it is applicable on suitable primers. It has excellent adhesion and coverage properties and optimal resistance to fuels, greases and oils.

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Green Hull Coating System

Nanto Paint has recently designed and introduced into the market a high performance coating system based on patented nanotechnology for hull applications, both new building and maintenance, with properties of reduced friction and fuel saving, completely free of biocides.

APPLICATION AREA	PRIMER	INTERMEDIATE	TOP COAT/FINISHING
Underwater	NPC 7001	NPC 7002 AL	NPC AF-SILO3 PLUS

NPC 7001

Two component epoxy polyamide primer.

High solid and very good adhesion. It delivers an outstanding anticorrosion barrier effect to the topside and superstructures.

NPC 7002

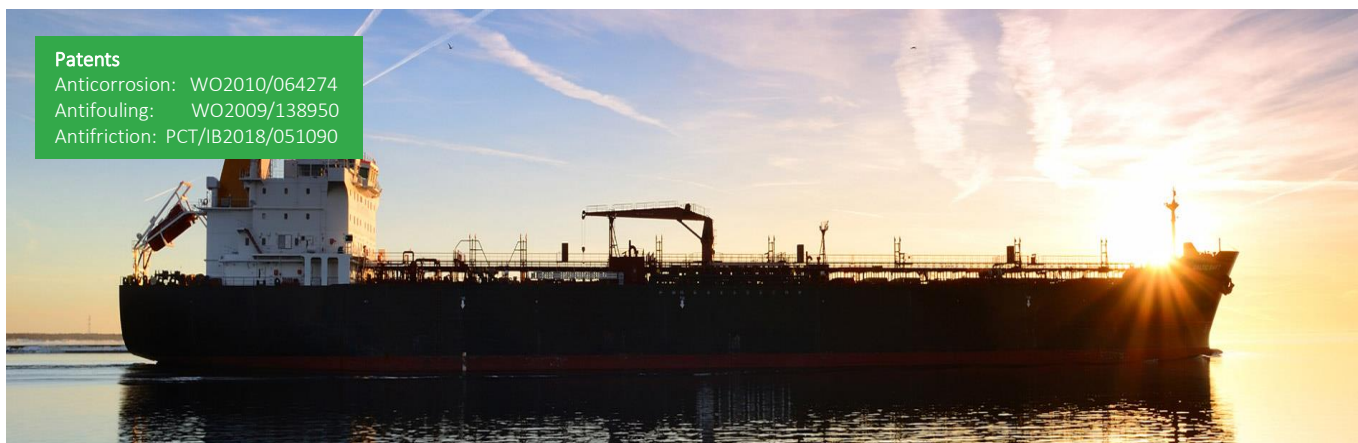
Two-components surface tolerant epoxy intermediate.

High percentage of solid. It can be used as primer or intermediate and ensures an excellent adhesion even at higher thickness, delivering a superior durability.

NPC AF-SILO3 PLUS

High performance nanotechnology-based biocide-free coating for hulls application.

The patented nanotechnology embedded in the coating gives it antifriction properties. Very high solids content and low VOC. The high performances of product allow a high reduction of fuel consumptions. Suitable for vessel with speed above 12-14 knots and dwell time not exceeding 3 days. Product in compliance with the IMO Antifouling System Convention AFS/CONF/26.



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