



TYPICAL USES

OPERA VIVA - ITALYMARINE

is a eco- friendly foul release coating for propellers, shafts, rudders, trim tabs, stern drives and other metal parts permanently immersed in water

KEY FEATURES

- Omniphobic foul release
- Abrasion resistant
- Chemical resistant
- Anticorrosion Protective.
- Biocide-free
- Highly durable
- Average life service 3 years

APPLICATION PLUS

- Single layer nano coating
- is easy to apply: Do-It-Yourselfer's
- Easy to maintain, no need for a complete re-coating to repair local issues
- longer maintenance intervals
- No need for periodic re-haling and drydock inspection



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PRODUCT & APPLICATION DATASHEET

OPERA VIVA - ITALYMARINE™

Foul-release coating for boat hulls and underwater assets

Innovation & Research

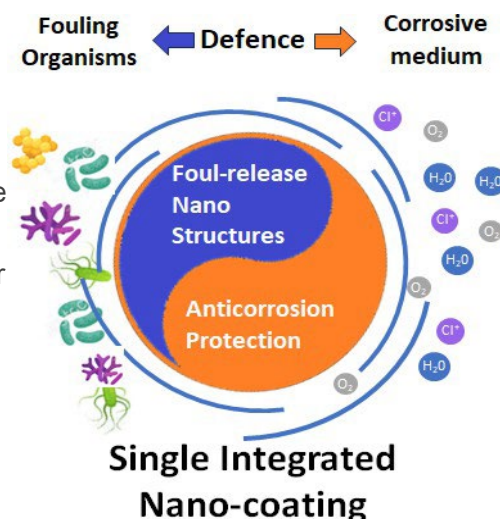
OPERA VIVA - ITALYMARINE™ is a self polishing acrylic copolymer 2K nano paint, especially designed to prevent the attachment of marine organisms and the slow growth of sub aquatic organisms on the structural body of the ship hull. It has been formulated to create a super flat super hard surface biocide free layer that is so slippery that no marine growth can stick even in static conditions

Protection & Maintenance

OPERA VIVA - ITALYMARINE™ is an innovative nano composite paint single layer top coat resistant to wear and abrasion. It is perfectly adherent to the metallic or composite surfaces and constitutes a long-term mechanically stable barrier against corrosion on metal hulls subject to degradation and weakening. There is no at all need for harsh and frequent abrasive scrubs to remove the accumulating hard marine growth especially in static underwater. Only a very mild wipe completely can remove the micro-marine organisms such as barnacles, slime, and weeds that are unable to anchor themselves to the surfaces.

Moving surfaces (hulls, propellers, foils) are entirely self cleaning from 10 knots upward. The nano coating allows the vessel to glide smoothly and loss reducing resistance, drag and speed loss. This self cleaning property also eliminates the need to dry re-dock the ships regularly. Extraordinary maintenance can be scheduled over longer 3-4 years periods of time

Design Concept



Eco-friendly & sustainable

OPERA VIVA - ITALYMARINE™ is an environmentally safe long life foul-release coating which prevents the attachment of marine growth by low critical surface tension. It does not contain copper or tin compounds or any other toxic substances which might cause environmental pollution.

Performance & efficiency

OPERA VIVA - ITALYMARINE™ ensures that all boats can run at peak speed and maintain efficiency travel top performance at all the time. **(30% FUEL SAVINGS)**

This self cleaning property also eliminates the necessity to clean the hull after long periods of inactivity. If required it is more than sufficient to have a diver wipe off effortlessly the marine growth without taking the boat out of the water. Extraordinary maintenance can be scheduled over longer 3-4 years periods of time.



PRODUCT & APPLICATION DATASHEET

SERVICES

Support is available
on line 24/7

Tel: +39- 339 6785894

Email: support@italymarine.it

Application Support

Training on the job at
Italian Headquarters
LEINI' (TO) ITALY
Make an appointment
Tel: +39 335 353527

Technical & Commercial

Application at customer site
Make an appointment
Italy: +39 348 550 7962
For more information on
any of our products or
services please visit us:



Scan for MSDS
Material Safety
Datasheets

Produced by



Physical Features at supply

Binder type ^[1]	Acrylic - 2K bicomponent product
Appearance	Glossy- medium viscosity liquid
Colour	Trasparent - can be pigmented on request
Odour:	typical (N-butyl acetate)
Supply Vx	23 ± 3" CF/16 at 20°C
Flash point	23 °C ≤ Fp ≤ 55 °C
Specific Density	0,950 ±0,030 Kg/l at 20°C
Solids by volume	70± 1%

[1] OPERAVIVA-ITALYMARINE™ does not contain following substances Copper Oxide (n. CAS 1317-39-1); Copper Pyrrithione (n. CAS 14915-37-8); Tributyltin (TBT) compounds

Dry Product Features

Dry film thickness	70-100 µm DOUBLE COAT
Finish	Gloss 95%
Abration resistance	4mg/cycle Taber Waer Index (ASTM D4060)
Color	Pigmentable in the full RAL scale with pigments Series 8 CME PIGMENTS
Coverage	6 m2 /litro con uno spesso di 70 µm DFT

Instuction for use

SURFACE PREPARATION	<ul style="list-style-type: none">- Remove any contamination that could interfere with the adhesion of the coating such as old antifouling layers.- Remove any oils, greases, etc. by cleaning with high pressure fresh water to carefully eliminate all traces of dust/particulate residues- Uniformly abrade the pre-existing surface coating with medium/coarse 400-600 grain sandpaper to obtain complete removal of the previous coatings.- Sealing primer: Whether or not to use a sealant/tiecoat depends on the type and condition of the hull after having completely removed the pre-existing antifouling			
RE-DOCKING	At the next dry-dock it is NOT NECESSARY to completely remove the previous application, but after sanding with 400-600 grain sandpaper it is possible to repeat the same application with OPERAVIVA-ITALYMARINE			
CATALYSER (Hardner)	Mix ratio in weight : OPERAVIVA-ITALYMARINE (100%) + CATALIZZATORE 34 (30%) Shake well before use. Important: remember to close catalyst bottle after use do not let exposed to air			
APPLICATION METHODS	Brush; Roller Airless spray gun or HVLP spray gun - only PROFESSIONAL USE Nozzle tip 1,2 -1,3 mm Pressure at nozzle (minimum) 3,0 bar /43,51 psi			
OPERATING ENVIRONMENT	As dictated by normal good painting practice. In confined spaces provide adequate ventilation during application and drying. Recommended conditions for application are 20 – 25°C (68 - 77°F) and 30 – 60% relative humidity.			
DRY DOCKING DRYING & CURING TIME	The boat can be placed in the water when the paint has fully cured, usually after 12 hours. Postpone for a few days at low ambient temperatures or when the hull is not exposed to direct sunlight.			
				10° C
				23° C
				40° C
	Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.			2h
	Dried /cured for immersion Minimum time before the coating can be permanently immersed in water.			18h
	Curing ^[1]	Important Note The recommended shortest time before the next coat can be applied. Is maximum between overcoating is 30-60 minutes . Do NOT apply a second coating layer on previous dry layer		
	Pot life	Pot life after catalyzer mixing is max 2 hours		
	Once the coating application has been done there is no need to float the and if required it can be stored dry-docked indefinitely			
STORAGE INSTRUCTIONS	Packaging	Confezioni interne bottiglie plastica HDPE confezione esterna scatole di cartone	250 ml; 500 ml; 1000ml	
	Shelf life	Temperatura di conservazione consigliata		tra 3°C -60° C
	Stabilità prodotto	IM.TOP.18	OPERAVIVA-ITALYMARINE	5 anni nella confezione originale NON APERTA
		IM.CAT.34	CATALIZZATORE 34	6 anni nella confezione originale NON APERTA < 60 minuti se lasciato APERTO o esposto all'aria

CAUTION This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Newfantachrome technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product.

HEALTH AND SAFETY Please observe the precautionary notices displayed on the container and on MSDS Material Safety Data Sheets for each product. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought.

WARRANTY & LIABILITY LIMITATIONS Information contained herein is accurate to the best of our knowledge. The coating properties and cured coating properties listed herein represent typical OPERAVIVA and are not meant as specifications. Newfantachrome International Srl insists that users conduct their own tests for applicability and fitness for any purpose. Statements concerning use of products or formulations described herein shall not be construed as a warranty or license to infringe any patent or trademark, and no liability for infringement arising out of such use is assumed. Please refer to Newfantachrome International Standard Terms and Conditions or to your Purchase Agreement with Newfantachrome International for the warranty coverage of Newfantachrome International's products.

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