



**Industrie Bruno Stoppani** produces liquid paints and specialties for different industrial coating markets since late 1883. Our company offers numerous products such as primers, intermediates, finishes, coating systems certified and tested by official institutes for the different requirements of each operating environment.

**Industry:** petrochemical / urban and railways transport / chemical / energy / alimentary / Piping (on/off-shore) / Heavy Carpentry / Public works / Water systems / Agriculture / **Yachting:** Pleasure / Work / Fishing / Maintenance / **Building:** industrial



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Organization with certified quality management system which complies with UNI EN ISO 9001:2015 standard



YACHTING

# ANTI-OSMOSIS TREATMENT FOR FIBERGLASS BOATS



**EPOFIXO**  
IMPREGNANTE  
COATING  
EVOLUTION



# FUNDAMENTAL TO PREVENT THE OSMOSIS FORMATION BY AN EXCELLENT PROTECTION OF THE HULL PAINTING IT BEFORE THE LAUNCH OF THE BOAT

Osmosis is a chemical-physical phenomenon that occurs when there is contact between two solutions with different concentrations and consists in the passage of the solvent (water) from the less concentrated solution to the more concentrated one.

In the case of boats, the phenomenon takes the form of water absorption from outside the hull: it usually begins slowly, without obvious signs but gradually takes on consistency, forms bubbles and, if no action is taken in time, can arrive to cause the breaking of the membrane with consequent massive damage to the boat.

## THE CAUSES OF THE OSMOSIS

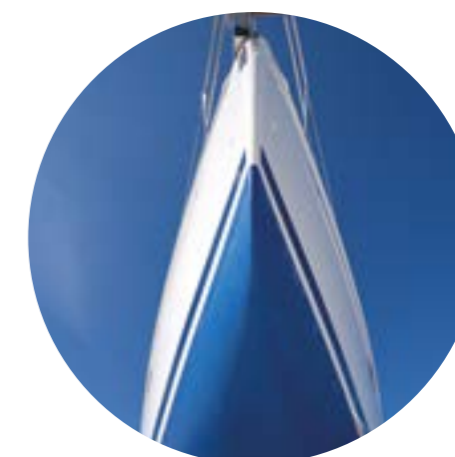
**AIR BUBBLES** in the mixing of base and catalyst during the polymerization process

**BAD MIXING** of base and catalyst molecules due to excess of one component or too low temperature during stratification

**POOR QUALITY** of fiberglass finishes or of orthophthalic resins compared to isophthalic ones for layering, gelcoat with the same characteristics, dark-coloured gelcoat or with organic pigments that facilitate the aging process of the gelcoat layer with increased porosity.

These impurities (salts), in contact with water, form the highly concentrated solution that triggers the phenomenon of osmosis; water may be present due to the permeability of the surface layer of the gelcoat, due to infiltration by non-waterproofed bilges, badly insulated through holes or accidental breakage due to impact with floating bodies.

Water may also be present as a residue of moisture retained by the glass fiber stored in inadequate environments; or by absorption by the glass fibers that surface on the substrate due to non-compliance with the gelcoat drying times before layering.



## EPOFIXO LINE

RANGE OF EPOXY PRODUCTS WITH EXCEPTIONAL PERFORMANCES FOR OSMOSIS PREVENTION AND CARE



**PERFECT ADHESION / ABRASION RESISTANCE / LOW WATER PERMEABILITY, WATER VAPOR, OXYGEN / INSULATION DUE TO BARRIER EFFECT**

These products are also very useful for wood when deteriorated and impoverished by the action of time and marine aggressions.



### EPOFIXO IMPREGNANTE

Two-component epoxy coating with low viscosity, designed for wood impregnation and anti-osmosis treatment of boats.



### EPOFIXO

Two-component epoxy coating solvent free for osmosis prevention, high build and fast drying, studied to form an insulating and sealing barrier with high water impermeableness.



### EPOFIXO EVOLUTION

Multifunction Epoxy System consisting of one resin base and its dedicated hardener that can satisfy different requirements, alone or combined with specific additives.

+ HOLLOW GLASS MICROSPHERES

**Use**  
Light filler

+ MICROFIBERS

To prepare glues or fillers with excellent mechanical properties

+ THICKENER SILICA BASED

Thixo-anti sagging function

+ PHENOLIC MICROSPHERES

To prepare mahogany coloured glues and filler

+ ACCELERATOR

Increase of the curing time of the mix Base + Hardener