

An underwater photograph showing the dark hull of a boat at the top, with sunlight filtering through the water from the right. Two divers are visible in the middle ground, swimming towards the left. The water is clear and blue. A large, abstract red graphic element, resembling a stylized wave or ribbon, curves across the bottom right of the page.

# Innovation 2016

The first antifouling silicone  
in adhesive film without biocide

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Press release

mactac® 

## Worldwide launch at the Nautic Paris Boat Show

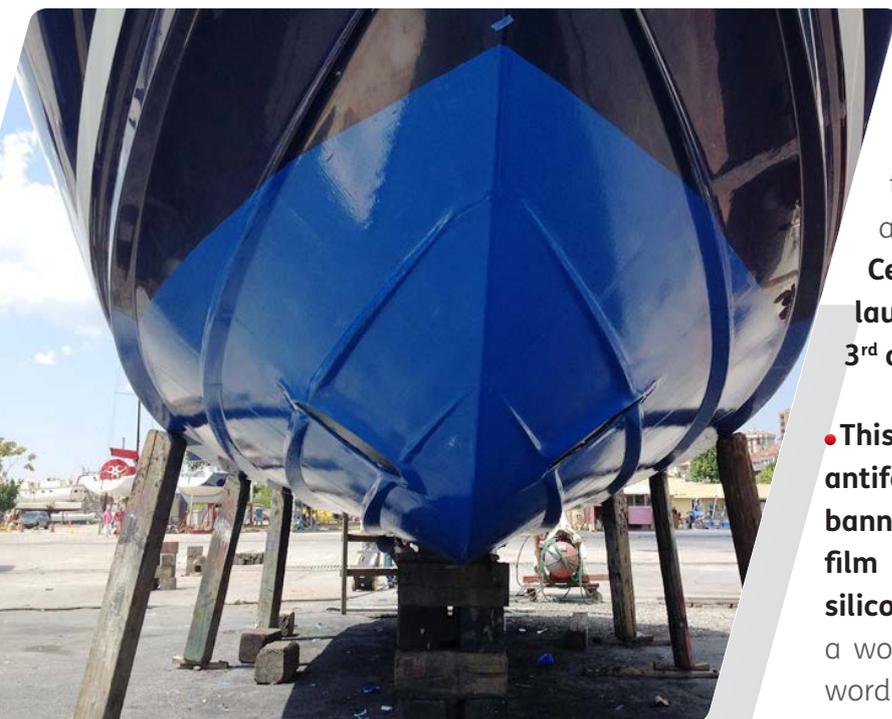
# Mactac innovates:

## The first self adhesive antifouling film (silicone based) without biocide

- Each year, nearly 150,000 tonnes of biocide-containing, antifouling paint is applied on hulls in Europe with well-known harmful consequences for marine fauna and flora.
- Mactac, the world leader in high-performance adhesive films, has innovated by developing **an anti-fouling hull coating that does not have an impact on the marine environment or on human health, revolutionary in its application, durability, and economy.**



Yacht - Rome (Italy)



Motor-boat - Istanbul (Turkey)

- This innovation will be presented at a preview during the Nautic Paris Boat Show. All the features of the product and its name will be revealed there. Therefore this is an excellent opportunity for you to attend the **Porte de Versailles Exhibition Centre to see this innovative product launch (meet on the Mactac stand on the 3<sup>rd</sup> of December 2016!)**.
- **This alternative to current, biotoxic antifouling products (which may soon be banned) consists of a protective adhesive film for below the waterline, coated with silicone paint** developed specifically with PPG, a world leading paint manufacturer. In other words, an "underwater painted adhesive film", a real technological advance.

● **As an anti-adherent, silicone prevents the colonisation of the hull** without spreading biocides and/or pesticides which contaminate the water. **The preservation of marine life and indirectly, human health, naturally figure in the front row of its benefits**, which has motivated its use on merchant or naval ships. Amongst its other sizeable advantages: self-cleaning at critical speed, lowering of friction thus optimising fuel consumption. In addition, its durability is greater and saves money on refitting, thus increasing the operational profitability of the vessel.

**However, the application of this silicone paint by spraying leads to application problems (severe restriction on weather conditions) and contamination of the work-site (undesirable spread of aerosol spray)** hindering its development. Not forgetting that this type of manual coating has a lower effectiveness as the anti-adherence character depends upon the smoothness and thickness of the silicone layer.

**This revolutionary solution overcomes the inconveniences while only keeping the advantages: the silicone covering is coated onto the self-adhesive film by means of an industrial process, with control of the thickness profile and without emitting volatile organic compounds (VOCs) into**

**the atmosphere.** Developed by Mactac after five years of Research and Development, this adhesive complex is particularly robust and seawater-tight. It is sold in a 61 cm x 25 m format roll.

**The development of a sealing varnish** completes this system, applied in transverse or longitudinal stripes, depending on the shape of the hull. This varnish can also be used to make localised repairs.

**The product construction has the proven properties and qualities of a silicone hull covering for the benefit of yachtsmen and/or shipowners/pleasure-craft owners.**



Fishing boat (Croatia)



Motor-boat - Loctudy (France)

# The advantages over “conventional” antifouling products are:

## 1 / Ecological: preserves the marine environment and human health

The product is not erodible in water and contains no biocide. It is also not hazardous to the professional who applies it.

## 2 / Unmatched ease of maintenance

A simple sponge and a soft brush allow any biofilms to be removed before the hull is colonised. Heavier bits fall off under their own weight. The absence of a toxic active ingredient allows the operation to be performed without harmful consequences and so it can be done anywhere.

## 3 / Self-cleaning

The fouling comes off by itself when the boat sails often and with a speed of 7-8 knots.

## 4 / Effective in all European waters

The product has low sensitivity to the biological variables of the marine environment.

## 5 / Greater durability: up to five years

Compared to six to eight months for existing, toxic antifouling agents on the market.

## 6 / Lowers friction

This provides a fuel savings estimated to be 5 to 6%.

## 7 / Reduction of the risk of osmosis: the film is waterproof

This gives unmatched below the waterline protection of a gel coat. A gelcoat covered with MacGlide will contain less humidity (water) than a gelcoat covered with an anti fouling paint (therefore, less risk of osmosis).

## 8 / Substantial financial savings

On maintenance costs, spread over the five years of the effectiveness of the antifouling coating: refitting and its costs are minimal.



Without the Mactac covering

With the Mactac covering



Hull cleaning of a motor-boat - Nieuwpoort (Belgium)

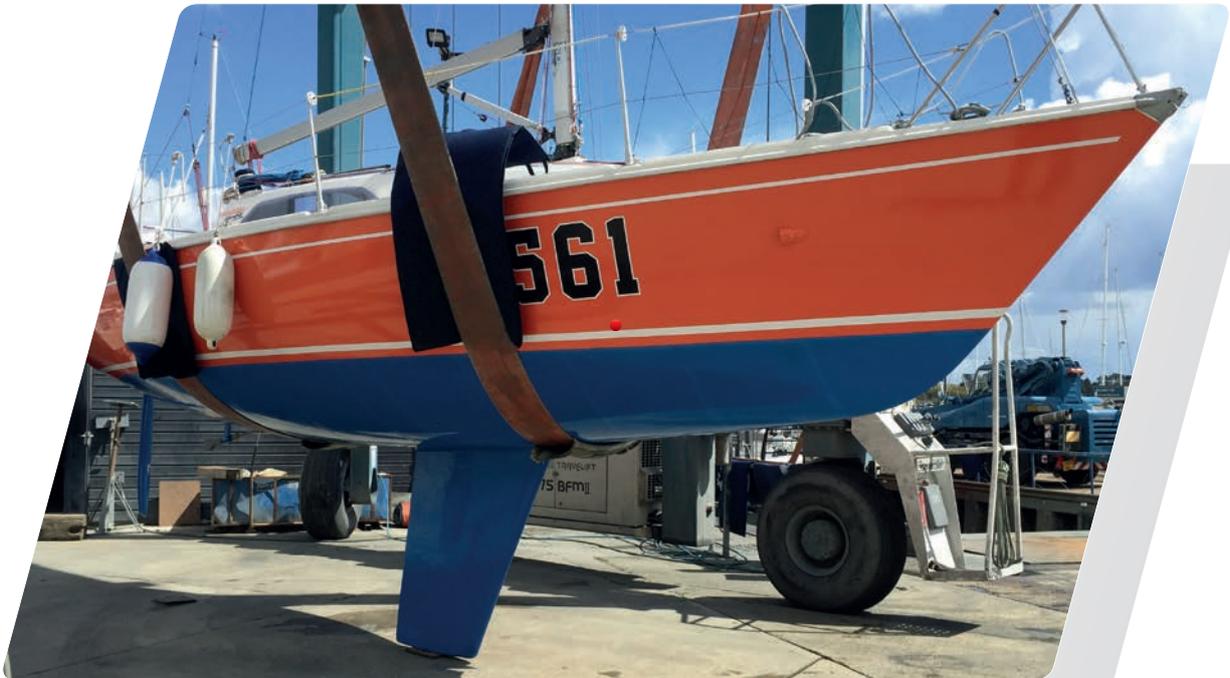
Plate immersed at Istanbul  
Static immersion over 3 months

- When used with Mactac tuning films, which customise the structure above the waterline, using this hull coating **gives an unprecedented advantage to the resale value of your boat.**

Once “unwrapped”, it presents a surface finish that is just as it was coming out of the boatyard, just like the rental car fleets “dressed” by Mactac. This advantage is addressed especially to boat

renters, builders, and boatyard owners, as well as owners concerned about the value of their investment.

- **In the short and medium term, the adhesive complex will be marketed by a specialized application network,** trained and approved by Mactac and its partners.



Yacht - Southampton (Great Britain)

**Press contact:**

**Mactac Europe**

**Daniele Perotti**

Tel.: +32 67 34 64 03

E-mail : [daniele.perotti@mactac.eu](mailto:daniele.perotti@mactac.eu)

[www.mactac.eu](http://www.mactac.eu)