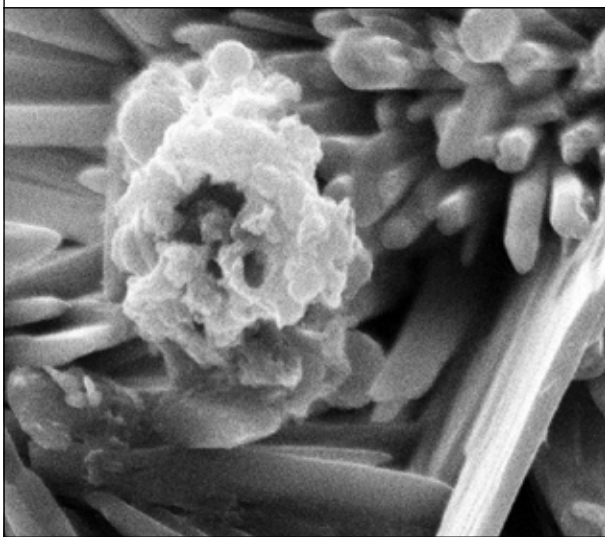


# About TCnano

---



## TCNANO TECHNOLOGY

TCnano works exclusively with chemical nanotechnology. We use the latest knowledge about nano materials and combine it with organic and inorganic chemistry. We do this for the purpose of creating tailored products with new functional surface properties.

We focus on four different functional properties, and depending on the product you use, the treated surface will be supplied with hydrophobic, hydrophilic, easy2clean and/or antibacterial properties (see explanation on the next page). On the treated surfaces, the thickness of the nanolayer can vary from 10 nanometres to 100 micrometres.



## PRODUCT MISSION

ALL OUR END-USERS PRODUCTS UNDER THE NAME “EASY2USE” ALWAYS COMPLY WITH THE FOLLOWING PRODUCT REQUIREMENTS:

- All users must be able to use the TCnano technology with an “aha experience” as the result, – with regard to the products’ applicability as well as their effect.
- The packages with TCnano end-user products must be complete packages that include all necessary materials which makes them easy to use for the end-user.
- The quality of each TCnano product and its functional properties must at least live up to the customer’s expectations.
- The safety instructions must be continuously updated and at least live up to the latest legislation regarding chemicals, including REACH.

## OUR FUNCTIONAL PROPERTIES

OUR FUNCTIONAL PROPERTIES:

- Hydrophobic comes from Latin and means ‘hates water’. The functional property means that drops form when water hits a hydrophobic surface
- Hydrophilic comes from Latin and means ‘loves water’. The functional property means that a thin water film forms when water hits a hydrophilic surface
- Antibacterial means a surface that actively fights bacteria
- Easy2clean is a combination of hydrophobic and hydrophilic properties, which makes surfaces easier to clean, as dirt and other impurities do not stick in the same way as before the nano treatment.





# Easy2use product line

Our marine products based on TCnano technology add new functional properties to a number of surfaces on your boat. You achieve much easier maintenance and optimal protection during the whole sailing season. Our marine products have all been developed in accordance to the easy2use principles.

TCnano is at the front line in the development of Nanotechnology and has so far been successful in getting the following unique end-user products on the market. Season after season several new products will follow.

## GELCOAT

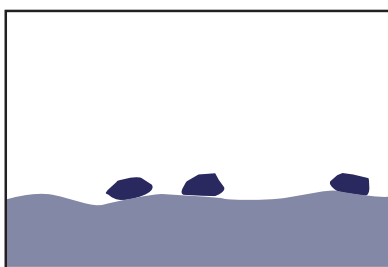
### CLEANING, POLISHING AND SEALING ALL-IN-ONE

Multifunctional and time-saving product with easy2clean properties for treatment of all Gelcoat surfaces above the water line. Faded surfaces regain their original colour and become extremely UV-resistant. Subsequent maintenance of the treated surface is much easier. Time-saving up to 50% compared with traditional wax and polish treatment.

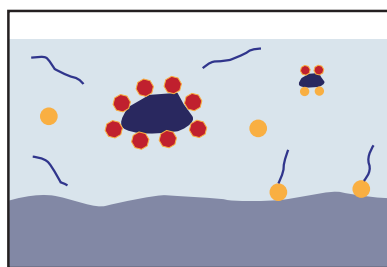
*Available in 250 ml aluminium can*



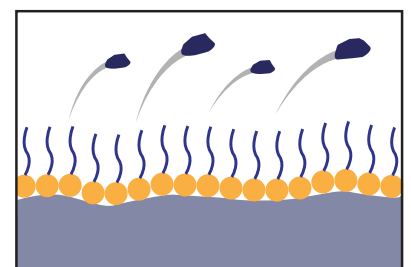
● Adhesive component    ● Polishing particle    ~ Anti-adhesive component    ● Dirt particle    ■ Solvent base



1. Cleaned surface with stubborn dirt particles.



2. Polishing particles condition the surface, adhesive components bond with the surface, anti-adhesive components are facing outwards.



3. Sealed surface with E2U effect – stays clean longer.



## PROPELLER AND DRIVE

### OPTIMAL PROTECTION OF PROPELLER AND DRIVE

Treatment with hydrophobic properties for metallic surfaces under the waterline that effectively prevents development of biological growths in fresh water and salt water.

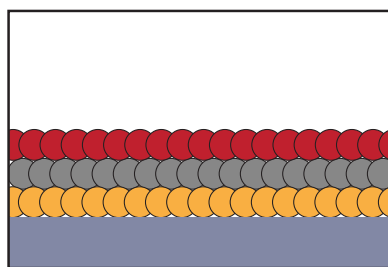
*Available in 100 ml aluminium can*



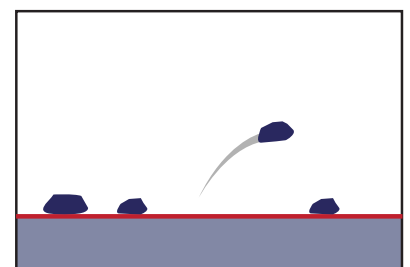
- Adhesive component
- Anit-Adhesive component
- Matrix-porming component
- Dirt particle



1. Cleaned metal surface.



2. Coating with adhesive and anti-adhesive component



3. Thin protective layer



# Easy2use product line

## MARINE CLEAN TEXTILE

### AVOID STAINED TEXTILES

Water-based product with antibacterial properties that effectively and easily removes stains caused by mould, algae and fungi on all types of outdoor textiles. Leave an invisible film that keeps the surface free of mould and algae for a long time.

*Available in 750ml plastic bottle with pump spray.*



## MARINE CLEAN TOILET / SANITARY

### AVOID BAD SMELL

Water-based product with anti-bacterial and cleaning properties that effectively removes odour from the boat's sanitary. Suitable for wash basins, shower areas, toilets etc. Leave an invisible film that keeps the surface free of bacteria for a long time.

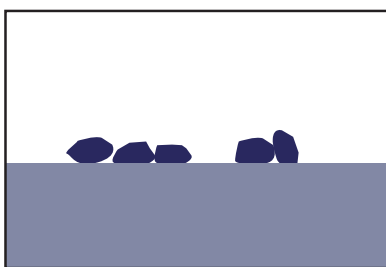
*Available in 750ml plastic bottle with pump spray.*



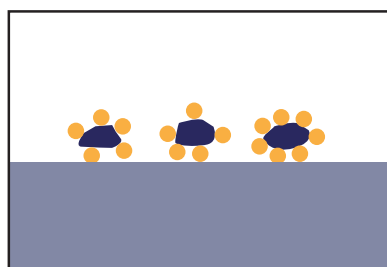
● Composite material

○ Neutralised bacteria

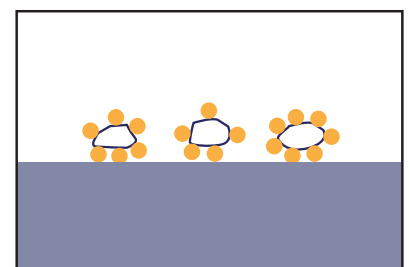
● Active bacteria



1. Odour producing bacteria/  
mildew producing bacteria.



2. Bacteria are isolated and neutralised



3. Neutralised bacteria with permanent  
protection against new bacteria.



## MARINE SHINE

### UNIVERSAL POLISH TO METAL SURFACES

Extremely effective cleaner for copper, brass, stainless steel and aluminium. Restores gloss easily and quickly and removes small scratches in the surface.

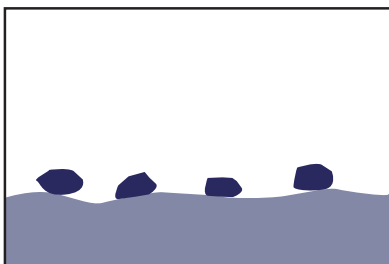
*Available in 200 ml plastic bottle.*



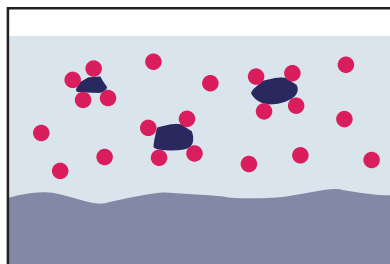
● Polishing particle

■ Dirt particle

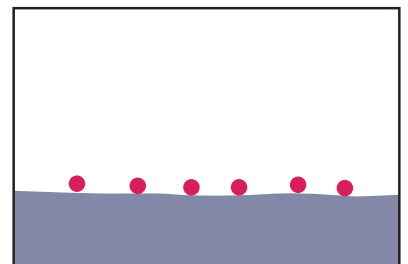
■ Solvent base



1. Surface with stubborn dirt particles.



2. Polishing particles condition the surface.



3. Polished surface with E2U effect.

# Marine PRO

---

We offer a complete range of professional marine care products based on the latest nanotechnology. Throughout a period of years, we have co-operated with several selected shipyards on developing a range of PRO products with focus on optimal performance and improved durability. Over a number of years, all products in the PRO productline have been tested and tried out in Denmark and other countries.

The range of marine products is the obvious choice for the professional part of the boat industry, involved in the preparation, such as boat hotels, charter companies, shipbuilders among others – just as the products with great success has been used by more and more racing teams!

## GELCOAT PRO

Multifunctional polish paste with improved seals and UV-protection. Suitable for the final clearing before delivery to the customer. You achieve a high gloss and lasting UV-protection. Subsequently, the cleaning of the surface can be done with mild soap and water. The applying process is very time-saving compared with traditional products!

*Available in 1 litre and 5 litre aluminium can.*

## SPEED PRO

Speed-boosting coating to engine and sail boats up to 50 feet. Specially developed coating for treatment below and above the waterline, which promotes the speed potential immediately after application. Practical tests have shown speed improvements between 5-10%. Suitable for preparation before racing for those who want to exploit the optimal speed potential in their boat.

*Available in 5 litre, 10 litre, 20 litre.*



# Development



At TCnano, we never lean back and content ourselves with our products. We fine-tune them all the time in order to get the optimal result from the TCnano technology. We can change the properties of a surface, add new properties and thereby create new functionalities. The result is a product with much larger advantages and a significantly higher financial gain for our partners.

Together with our partners we are working actively to use the latest knowledge about surface treatment. In this way, we are at the forefront of the demand, and we continue to develop nanotechnological surface treatment and new products.

Our latest development project within the marine segment is a special racing coating for racing teams. The product SPEED PRO is developed in co-operation with some of the most talented yachtsmen from Denmark.

TCnano Speed Pro is a product that reduces the friction of the hull through the water. It is extremely well suited for racing boats without any form of bottom paint.

Product Manager Robert Firkic from TCnano: "This is a nanotechnological surface treatment based on chemical nanotechnology. When the product is applied a self-assembling process begins in which a sticky groups creates a chemical bond to the undercoating. Due to the large surface area of the nano material a fine wide film is formed".

"This area is used to exploit fluorine groups in a very high concentration. The process is also known as hyper fluorination. The result of this process is a surface where the friction is strongly reduced. Laboratory tests have shown an improvement of up to 30% compared to a non treated boat. Moreover, the Speed Pro is suitable for boats without genuine bottom paint, since the treatment with Speed Pro postpones algae fouling, and thus cleaning/hosing of the bottom is essentially easier" tells Product Manager Robert Firkic.

TCnano has recently signed a sponsorship agreement with the Farr-40 team "Mazda Sail Racing Team". Several other of Denmark's talented international yachtsmen also use the products – amongst those, yachtsmen from Denmark's yachting delegation who attended the Olympic games in Beijing.





# Testimonials:

---



[WWW.BYGGPLAST-BATPRYLAR.SE](http://WWW.BYGGPLAST-BATPRYLAR.SE)

JOAKIM BERNER, MANAGING DIRECTOR,  
BYGGPLAST & BÅTPRYLAR SWEDEN AB:

*"Byggplast & Båtprylar Sweden AB has been TCnano's distributor on the Swedish market since 2007 and we are experiencing a significant increase in the demand for products from TCnano. This is especially due to many fine editorial press coverage which the products have achieved after being tested the past seasons in "real life" of several journalists. TCnano GELCOAT has, among other things, achieved extremely laudatory publicity in the boat supplement in Sweden's largest morning newspaper Dagens Nyheter".*

*"The significant interest in TCnano's products is the result of the products unique qualities and that they each contribute with new properties, which until now have not been possible to achieve using traditional technologies. The products based on TCnano technology are not just some new "me too" products at the shelves. They find their own foundation through the new properties, which the products provide and they solve actually problems which before have given the yachtsmen large problems.*

*We recommend gladly TCnano's products to other players in the global marine segment".*

---



WWW.FLAK.NO

Geir Stamnes, Purchasing Manager, FLAK AS,  
NORWAY – says:

*”FLAK AS signed a distributor agreement with TCnano back in 2006, and we have certainly not at any time had reason to regret this. Despite the fact that TCnano technology at that time was very unknown and products equally, we had very quickly grip in the yachtsmen and thus created a sincere interest in the new technology and the new properties which the products obviously offer today’s innovative boat owners.*

*Since then the sale has increased – it is like rings in the water – they are spreading of course – and the same is the case with the knowledge of TCnano products!*

*It is actually the case that each purchase of a TCnano product will be a sort of ambassador for the product and bring the message of their superiority properties to other boat owners.*

*We recommend with pleasure TCnano products to all boat owners and dear colleagues around the world. ”*

WWW.PALBY.DK

PETER HELLESKOV, SALES MANAGER,  
PALBY MARINE A / S, DENMARK:

*”Palby Marine A/S decided very quickly to enter a cooperation with TCnano back in 2006 when we became aware of their new products based on TCnano technology. We saw it as something new and exciting, and after testing the unique characteristics of the products, we were absolutely convinced that this was something that we would present to our many customers here in Denmark.*

*Since it is gone steadily forward on the conversion, and it’s very positive to note that the current TCnano has managed to develop exciting new products. Even more important is that they even have been able to make the newly developed products marketable, so we season after season have been able to show our customers novelties. The latest addition is TCnano Speed Pro, which I personally am looking forward to presenting in the 2009 season.*

*We recommend TCnano as a serious partner with exciting new products. ”*