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# Focus News

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For issue 103 our focus is 'The Finish', and the main activities that are associated with it. This includes filling, fairing and all types of coatings including varnishes, teak and the machines and technologies associated with their application and maintenance. Here is the news we received on what makes the superyacht shine.

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## A Match Made in Heaven

Railstar Marine and the Commercial Division of Pinmar Yacht Painting Systems are pleased to announce a collaboration that will see Pinmar as the worldwide distributor for the award-winning Railstar (Cap Rail Maintenance) System. It seems like a match made in heaven with Pinmar's Commercial Director commenting: "...Pinmar's logo is 'Yacht Painting Systems'; we were immediately interested in this product. I do not recall when I have personally witnessed such an innovation with regards to (procedure and effect) within the realm of cap rail maintenance." Founded by Scott and Leticia Van Allen, Railstar Marine along with L.V.A Yacht Crew Agency is part of the newly formed Yacht Crew Group, also formed by the Van Allens. Formed in 1974 Pinmar has gone from strength to strength in the world of paint. Railstar is a reusable, quickly attachable and detachable frame assembly system. When in place, it houses a very easily installed "bib" or retaining tray which will catch all run-off material, which may include paint remover, varnish, scrapings,

sanding dust etc, enabling the varnisher or painter to apply thicker coatings without having to worry about run-off. When not in use the Railstar framing assembly can be easily stored and takes up a small amount of space. This product was developed in late 2004 and has gone on to gain the respect of industry leaders, we look forward to seeing how Pinmar and Railstar's relationship progresses.

As an 'embodiment of this system', Coverguard will now be available through Pinmar/Railstar distributors in smaller, more convenient spools. Coverguard, manufactured by Bainbridge Intl, is the industry standard (blue flame-retardant polyethylene deck plate with non-slip diamond pattern) for deck and carpet protection. The two new sizes will work well with the Railstar System, and are expected to be popular and practical with bosuns, engineers, interior crew and contractors alike.

[www.railstarmarine.com](http://www.railstarmarine.com)

[www.pinmar.com](http://www.pinmar.com)



## Yet Another One for Pinmar

Another nugget of news from Pinmar is that they have become the distributor for Neosil, with their unique, environmentally friendly concept – Neosil Fouling Release System. The system was developed in The Netherlands and is based on extremely smooth silicon technology, which prevents organisms from sticking to the ship's bottom. The fouling system also allows faster boat speed, does not contain biocides or heavy metals, prevents osmosis and annual maintenance is greatly reduced. It consists of epoxy primer, Neosil Midcoat and Neosil Topcoat and is suitable for steel, wood, aluminium, polyester and composite, and for fresh and salt water.

[www.neosil.nl](http://www.neosil.nl)

[www.pinmar.com](http://www.pinmar.com)

## Nanotechnology Treatment

A new product from Nanovations Pty Ltd offers a solution to remove tea stains and to protect surfaces from staining, all in one easy application. Discoloration and tea staining is a common problem wherever you are. The NH2015 Metal has been developed for the removal of stubborn tea stains, oxidations and contaminations from uncoated metal surfaces like stainless steel, aluminium and other uncoated metals. It is oil free and non-film building Nanotechnology that enhances surface treatment for metal care.

The application protects the stainless steel against new contaminations for up to two years and longer with periodical application, even if it is fully exposed to weathering or harsh conditions. During this time, all contaminations can just be wiped off with a wet cloth. It can be applied directly to the substrate that will be cleaned or protected with no further preparation. It's easy to apply, has low consumption, reduces dirt adherence, is water based, and is VOC and acid free.

[www.nanovations.com](http://www.nanovations.com)

## A New Machine and a Paint Job

Seeing a gap in the market, the Northern American division of Awlgrip partnered with Michigan-based Company Michael Engineering to develop a unique filler-mixing machine specifically for use with Awlgrip Awlfair L.W. Fairing Compound. The fruits of their labour have already been acknowledged with an 'honourable mention' under their belts from the Boatbuilding Methods & Materials category at the IBEX Innovation Awards 2008. It took two and a half years of development and numerous modifications of prototype machines of the Awlfair Mixing Machine, for the design to be finalised. Modifications included replacement of all the pumps, pipelines and casings, as well as coating the machine with Awlgrip HS for protection. The end result is a high-tech 5-gallon mixing machine which safely, accurately and consistently mixes Awlfair L.W. without any product compromise.

As well as in-house testing, the new machine underwent some rigorous testing at two of North America's top boat builders to fine-tune the



product. Benefits of the mixing machine means that applicators are able to eliminate air pockets for the job at hand, and the machine measures the precise ratio of base to converter, so the right quantity is produced, eliminating wastage. After successful trials, machines have been installed at the likes of Burger, Delta, Trinity, Derecktor and Christensen.

More news from Awlgrip includes the new method of hull painting carried out on *Nazenin V* (above), the Sparkman & Stephens 52m ketch currently under construction at RMK Marine's shipyard. Carried out at the Tuzla yard by sub-contractors Karma, the Awlgrip

paint team was present throughout the process.

This new method of painting was used for the first time at RMK and involved completely removing the staging to avoid dust. A custom enclosure was then erected with a complete cover shrinkwrapped in place. Air was then pumped in from the atmosphere via very large, long filters high in the tent and then exhausted via equally large filters. It took six hours to spray the 52m ketch with four coats, so that her finish would look excellent when it comes to her launch later this year.

[www.awlgrip.com](http://www.awlgrip.com)

[www.rmkmarine.com](http://www.rmkmarine.com)

## Sentry Glass

New from DuPont is their DuPont™ SentryGlas® Expressions™, a new decorative glass manufacturing concept. The idea has grown out of two of their core technologies – digital inks and their materials and technologies for glass laminating. DuPont™ SentryGlas®

Expressions™ interlayers are printed using high-resolution ink jet printers with specially formulated inks to create an image-carrying safety glass. The interlayer is then shipped to a glass laminator who completes the glass or its installation. Printing onto the interlayer is said to be quick, efficient and versatile, with DuPont being able to generate art proofs in a day

or two. The concept uses a full-colour palette and allows continuous tones or tonal shifts in any image you can think of. Graduated colours and combinations of words and text may be assembled and a range of transparency levels can be made within a single laminate pane. You can have solid colours or high-density art or photography in one part of the image and complete clarity elsewhere. Choices for the base interlayer include clear, translucent white and soft white, which will allow for control of how much background can be seen through the glass. Though the illustration is clearly not on a yacht the concept will offer interior designers an opportunity to use glass in a creative and decorative manner within and maybe even outside the superyacht.

[www.dupont.com](http://www.dupont.com)



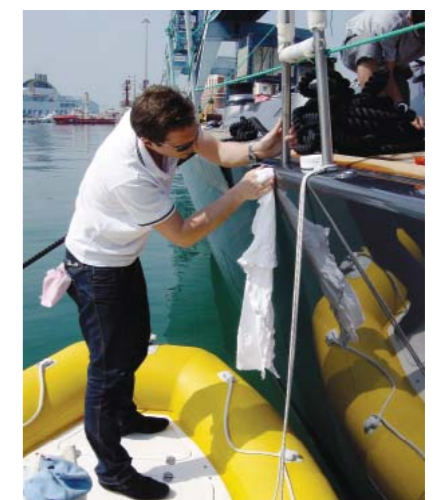
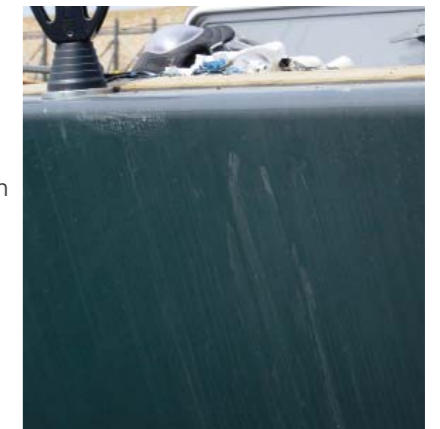
## Permanon

New to the superyacht market is Permanon; a company that provides a safe way for crew to apply high-gloss surface conserving protection to all coatings. Permanon means that there is no need for polishing which degrades the surface and can often lead to halo swirls, surface degradation and eventually to earlier repainting. According to Permanon the difference between their products and other nano-tech products is that others bond chemically to surfaces. This makes them nearly impossible to remove so they need deep sanding to ensure that the new paint is not contaminated. They claim this is approximately 30% more expensive.

Permanon does not work like this; the technology behind it is chemically inert coatings that, Permanon explain, bond purely statically, which means they are safe for painting and re-painting with no sanding. Their products are made up of the natural element Si14 in its monomolecular form, so are more than 96% biodegradable, thus environmentally friendly. To produce the static bond, the Si14 molecules are positively charged to connect electrostatically to the surface. The products can be applied safely to solid surfaces including glass, GRP paint, leather, steel and plastic. The immediate static connection means that results can be achieved in minutes, and Permanon can be removed in the normal re-painting procedure, without any special requirements. James Dreyer of M/Y *Anastasia* says of Permanon coated windows: "Water and vinegar are things of the past and our daily maintenance times on these areas is close to halved."

Permanon has been tested by paint manufacturers and superyacht paint applicators, who all report that the UV resistance of Permanon leads to an 80–100% increase in the gloss-life of paint, which in turn saves a fortune as the life of yacht paint is almost doubled.

[www.permanon-shop.com](http://www.permanon-shop.com)



Top: Before Permanon

Above: After Permanon Supershine

## Future Sealed with a New Distributor

Growing market demand has made it obvious to Alexseal Yacht Coatings that they need to broaden their distributor list. The addition of Italy's Amico Servizi Srl and Teknomarin in Turkey as their distributors will provide customers with greater access to their products. Amico Servizi Srl has continued to increase the products and services available to captains and crew at its Genoa facility. They are the sister company to Amico & Co which has allowed them to draw on their older sister's knowledge, who have been around since 1990.

Teknomarin is Istanbul's leading brand for economical, high-quality yacht and industrial paints, as well as being a subsidiary of Istanbul Teknik Boya ve Kimya San. LTD. For over 30 years Teknomarin has specialised in manufacturing and direct sales of marine and industrial paints. Teknomarin now supplies to a multitude of boatyards and professional applicators with access to Alexseal's complete set of premium paint products.

[www.alexseal.com](http://www.alexseal.com)

## Gtechniq

Gtechniq, a manufacturer and applicator of polishes and coatings, have announced the success of their c1 Crystal Lacquer, which not only makes surfaces look better, but also reduces the cost of maintenance bills. According to Gtechniq there is evidence that proves by spending what is on average 4% of a new



paint finish on a covalent (chemical) bonding crystal nano lacquer, this not only saves an average of 30% on overall repaint cycle cost but saves countless hours of keeping exposed surfaces dirt and blemish free. Applications that they have under their belt are that of M/Y *Mustique*, M/Y *Sai Ram* and M/Y *Anastasia*. Testaments from all three of these yachts are very positive with M/Y *Sai Ram*'s First Officer saying, "The paintwork has been given the care it needed, with all the stains removed it has that freshly painted look again. Water still beads cleanly off and wash downs are quick and easy." The c1 Crystal Lacquer offers UV protection, gloss and colour stability, product life, stain resistance and surface restoration.

[www.gtechniq.com](http://www.gtechniq.com)

## Ultrasonic Antifouling



The Ultra System from Ultrasonic Antifouling is a revolutionary new way to protect a yacht from fouling, using high-frequency, low-power sound waves to destroy algae and therefore to prevent weed and barnacle growth. The system is low cost, effective and completely pollutant-free, and it does away with the annual preparation and painting of the boat's bottom.

Currently, the product comes in two models: the Ultra 10, for boats up to 10m, and the Ultra 20, for boats up to 20m. Each system consists of a control box and either one or two transducers. For more complex installations such as on superyachts and trimarans, they can offer a bespoke system design facility. The transducers are bonded to the inside of the yacht's hull, with no damage to it at all. The system covers all of the hull and the underwater gear,

including propeller, shaft and stern gear, water intakes, bow thrusters, log impeller, trim tabs, sail drive and outdrives. The control box sends a variety of pulsed ultrasonic signals to the transducer, which then emits a series of low-power, high-frequency soundwaves that are virtually inaudible to the human ear. They create a wall of moving water molecules over the whole surface of the submerged hull, creating a micro environment that kills algae and prevents barnacle growth. While this technology is new to the marine market it has been tried and tested to prevent fouling in lakes, ponds, reservoirs and even greenhouses.

[www.ultrasonic-antifouling.com](http://www.ultrasonic-antifouling.com)

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\* CIR – Committed Information Rate

Premium Voice Service providing guaranteed voice quality from just \$0.25 per minute

### COVERAGE

- Europe
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- North America (incl Alaska & Hawaii)
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- Caribbean
- North East Asia
- South East Asia
- Pacific Islands
- South America

Automatic Dual Antenna Switch Available

### AIRTIME - TYPICAL COST COMPARISON

	Cruise IP (Standard)	Inmarsat B	Inmarsat F77
Download speed	1Mb/s	64kb/s	64kb/s
1 MB file download	8 to 20 seconds	124 seconds	124 seconds
Usage cost	\$102/day	\$7.50/min	\$6.45/min
Usage for \$102.00	24 hours	14 mins	16 mins



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## New Wood Sealer

Developed for the needs of production builders, boatyards and applicators that were looking for the traditional feel and look of wood, yet delivering the firm build and aesthetic faster, Interlux's Clear Wood Sealer is considered a winner in the traditional brightwork finished system. It's a fast drying urethane that is used for priming wood prior to application of single pack varnishes or two-component urethane finishes. It's easily absorbed, filling the wood grain fast and effortlessly, and forms a strong bond between the wood and subsequent paint or varnish systems. The Clear Wood System allows for flexibility in system choice, with a fast cure structure that will complete a job in two to three days instead of five to ten. It is suitable for both interior and exterior wood, and reports have said that time saving can amount to 40% by using Interlux's new product. This time-saving makes the product ideal for new yacht production environments, restoration projects or seasonal maintenance work as time and effort is reduced considerably.

Due to its quick drying time, up to four coats can be applied in just one day. It is overcoat-able with a number of clear and pigmented Interlux finishes, and the number of coats required can be tuned to match the degree of grain openness, suiting the client or their designer's taste.

[www.yachtpaint.com](http://www.yachtpaint.com)

## New Perfection Plus

International Paint has added a new product to its European professional portfolio in 2009, Perfection Plus. This new product is a clear, two-part polyurethane, based on the same resin system as the International® Perfection finish (YH) series. The product can be used as either a varnish or as a glaze coat with the pigmented Perfection range. When being used as a varnish, it has a life of up to four times longer than conventional one-part varnish products as well as providing superior UV protection. It can be applied direct to the substrate, even onto oily woods such as teak and iroko. It is said to have a very good gloss finish, both on application and in service, maintaining the aesthetical look.

As a glaze coat, it enhances the durability of the finish and further improves colour retention. When used with Perfection finish, Perfection Plus will deliver superior flow and levelling characteristics, whilst at the same time maintaining gloss and DOI levels.

[www.internationalpaint.com](http://www.internationalpaint.com)

## Update on Esthec



We have written of this product before but we have called it Bolidt; in fact Bolidt Kunststoftoepassing B.V. is a company founded in 1964 which develops and produces thermosetting synthetics. One of these is Esthec, a teak substitute. The company recently announced a new option for today's superyacht clients whom they describe as "increasingly demanding and more and more specific about what they want from their yacht". One way Bolidt found to address this aesthetically was by developing an extensive new range of colours. Those colours originally developed as a one-off for some of their clients are now generally available. Weight control is another vital aspect of today's performance sail and motoryachts in response Bolidt are developing new lightweight versions of their product. They claim that savings of 75% are possible allowing higher performance. Bolidt call Esthec® 'nature reinvented', a composite with all the outward features of teak; the look, the feel yet isn't wood so unbreakable and low maintenance.

[www.esthec.com](http://www.esthec.com)



# ATLANTIC CROSSING

Thanks to our recent takeover of Classic Yacht Refinishing in Fort Lauderdale, you'll be delighted to know that we at Pinmar can now offer you our finest quality paint services on both sides of the Atlantic.

Whether it's in the new Rybovich yacht facility in West Palm Beach, where Pinmar USA has set up a strategic partnership, or in any of the other yards where Classic have been painting yachts for years, Pinmar USA – Classic Yacht Refinishing will deliver the quality of finish we are famous for.

Unbeatable service. A longer reach. Commitment to innovation.

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CLASSIC YACHT REFINISHING

## Megafiller Deck and Hot

Two new fillers have been added to Jotun's range to ensure that the fairing needs of demanding superyacht customers are fulfilled: the Megafiller Hot Climate and the Megafiller Deck. The Megafiller Hot Climate has been designed for hot climates, especially those over 25 degrees Celsius. It is a solvent-free epoxy compound, which has excellent sanding properties and is more flexible than other epoxy fillers.



Although it has a longer prolonged working time, its hard dry time for sanding is short, with an incredibly low rate of shrinkage. The Megafiller Deck is also solvent free. It's an ultra lightweight epoxy fairing filler than can be applied to a very high thickness. Its benefits are minimal shrinkage, strong adhesion and good sandability.

[www.jotun.es](http://www.jotun.es)




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