

# MARINE NEWSLETTER

December 2023

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## Gurit exhibits at Indopacific and METSTRADE

Gurit was delighted with the visitor numbers to the Gurit booth at Indopacific 2023, the international maritime and defence industry event held at the International Convention Centre in Sydney from 4-6<sup>th</sup> November.

At the show, Gurit showcased our advanced composite materials, engineering and mechanical testing capabilities.

On display were the impact tested samples of marine hull bottom panels, aluminium vs composites construction featuring Corecell™ foam for high-speed vessels up to 40m, with the impact resistance and weight saving results.

Follow this link to view the Gurit impact testing on marine panels video: Composites vs Aluminium  
<https://vimeo.com/guritgroup/impact>



L / R: Sean Jeffery, Sam Lyon-Jones, Tony Stanton

METSTRADE is the world's largest trade exhibition of marine equipment, materials and systems with attendance figures of 17,000+ visitors from over 125 countries.

Exhibits from Gurit, our Distributors and customers demonstrated Gurit's offering to the Marine industry including Kerdyn™ PET and Corecell™ M, SC 110 cosmetic carbon prepreg and the latest product in the AMPRO™ range, AMPRO™ 115 Clear Epoxy Laminating System. With its high resistance to UV yellowing, AMPRO™ 115 is ideal for cosmetic carbon and surfboard lamination applications.

Thank you to our Distributors and all involved in the show organisation and production of our exhibits. We look forward to seeing everyone again at METSTRADE 2024.



L / R: John Howard, Piet Heydorn, Yannick Le Morvan, Garth Thomas, Rod Fogg, Jaco Bouwmeester (Distributor), Francesco De Giorgi, Philip Aikenhead.





## The first of the new Hong Kong hybrid electric ferries has been launched

Photo credit: CL Martin Lo

**Cheoy Lee Shipyards, our long-standing Gurit client, has launched the first of 8 high speed passenger ferries that will transport over 5 million people annually, servicing the outer islands around Hong Kong.**

These innovative vessels have been constructed to help reduce emissions through the use of light weight construction and the use of a hybrid electric drive train. Industry leading exhaust treatments have been applied to further reduce particulates and emissions from these vessels.

Gurit was consulted for extensive structural engineering services, and supplied Corecell™ M foam. This is one of the largest carbon fibre commercial vessels that has been built to date.

The project started in 2022, with the first boat now delivered and the remaining 7 will be in the water by early 2025.

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**WE WERE VERY PROUD TO HAVE BEEN ABLE TO WORK ALONGSIDE THE TEAM AT CHEOY LEE ON THE DELIVERY OF THESE VESSELS; THE OPPORTUNITY TO WORK ON THE LIGHT WEIGHTING OF ENERGY EFFICIENT VESSELS IS SOMETHING OUR TEAM IS PASSIONATE ABOUT; AND THE SPEED WITH WHICH CHEOY LEE HAS BEEN ABLE TO DELIVER THIS VESSEL IS A GREAT CREDIT TO THEIR DESIGN AND BUILD TEAMS.**

Tony Stanton, Gurit Engineering Manager APAC

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## ARKUP Livable Yachts – Life on the water

Arkup creates state-of-the-art livable yachts for sustainable and resilient living on the water. Founded by Arnaud Luguët and Nicolas Derouin - two French engineers - the ARKUP concept demonstrates a passion for the sea, technological innovation, design, green energies, and environmental preservation.

ARKUP Livable Yachts are fully solar-powered and electric-propelled making them green and “future-proof”. ARKUP is disrupting the yachting world by offering a sustainable on-the-water lifestyle, maximum comfort and safety thanks to its self-lifting technology - preventing sea-sickness - and ample seamless indoor-outdoor living spaces.

In 2019, they built their first model, the ARKUP 75, and they now have a dozen orders for a smaller version, the ARKUP 40. The ARKUP 40 is being built in Indiana, US, and feature Gurit’s Corecell™ I foam. “We selected Gurit as a supplier due to our quest for the optimal solution to outfit our livable yachts. Collaborating with industry leaders is paramount to us, and Gurit’s global recognition for product quality aligns perfectly with our standards,” says Arnaud Luguët, Chief Product Officer and Co-founder of ARKUP.

Find out more here <https://arkup.com/arkup40/>



**Arnaud Luguët and Nicolas Derouin**





## Scimitar power catamarans: proudly designed and constructed in Australia

The Scimitar brand has a long history with Gurit for the supply of pre-cut core composite kits for all major components including hull, wingdeck and hull sides, deck, cabin inner and outer, flybridge, duckboard and hard top.

After a few years of hibernation, in 2022 Scimitar next generation models were relaunched by new owners, The Aus Ships Group in Queensland, who have continued to partner with Gurit for materials and technical services.

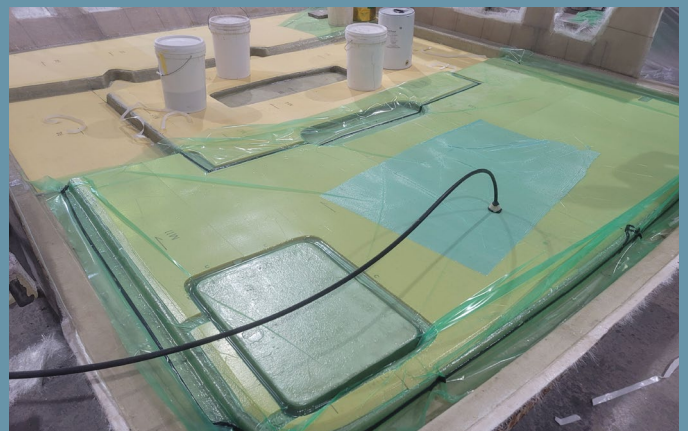
“Our kits were designed in conjunction with the Gurit team some 15 years ago and when the brand was relaunched it was a seamless process to once again order the pre-cut kits that had not been used for about 10 years.

These kits provide us with a consistent material quality and supply channel, along with labour and wastage savings across the composite side of our builds. We have confidence that every composite part and vessel produced is identical to the last,” said David Mackinlay, Project Co-ordinator Aus Ships Group.

Currently in the Group’s new fitout facility is [Scimitar 1010 flybridge model](#) Hull#070, and Hull#071 is underway with the composite hull shell in build using Gurit Corecell™ foam core and reinforcements.



**Scimitar 101 Flybridge Cruiser**



**Gurit core kit bagging**

Explore the range of Scimitar power catamarans here: <https://scimitarboats.com.au/models>



**Hull #070 is currently in the new fitout facility**

## From workboat to cruiser

The original Tuckerboot was designed for the rough River Elbe in Germany, serving as a robust work boat in the port of Hamburg as a mooring vessel for larger sailing yachts and steamers.

These were small, agile wooden boats, originally rowed, but later built from steel and equipped with diesel engines, which due to their sound gave rise to the name Tuckerboot. Today, these boats are comfortably equipped and are ideal for inland cruising up the coast.

For the 700th anniversary of Hamburg-Blankenese, the designer Reinhard Steltzer presented the Hamburg Tuckerboot once again in traditional wooden construction, from which he then developed the Hamburg Tuckerboot 675 in modern plastic construction.

### A sustainable approach

The builder, Yachtwerft Hamburg GmbH, took a sustainable approach to the development and production of the Tuck 22. The aim was to produce a boat that is built with the maximum amount of renewable raw materials, uses the least possible CO<sub>2</sub> during construction, and emits as little CO<sub>2</sub> as possible during operation.



To achieve these goals, conventional materials have been replaced with more sustainable ones where possible. Flax fiber has been used in lieu of glass fiber, in conjunction with Gurit's Kerdyn™ recycled PET foam core and bio-based PRIME™ 37 epoxy resin, and the vessel is powered with an electric drive. Gurit's Engineering department also provided structural engineering services to the project. Launched earlier this year, the Tuck 22 will have a long life cruising the rivers and coasts of Germany.

## A step closer to completion on the Elite 13.8m

Marra Marine from Tauranga in New Zealand are building an Elite custom 13.8m powerboat with a mix of wood and composite construction.

Designed by Bill Upfold, the powerboat features Gurit PVC and Kerdyn™ PET core for the bulkheads, internal structures, soles and in the hard top.

This is the first big build for the new team and everything is tracking along nicely, with 90% of the construction complete and the new deck lifted and fitted into place.



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THE TEAM IS PLEASED WITH THE BUILD PROGRESS AND IT WAS A GREAT MILESTONE TO SEE THE DECK FITTED. WE NOW LOOK FORWARD TO COMPLETION OF THE BUILD AND DELIVERING EXCELLENCE TO OUR WELLINGTON BASED CLIENT IN APRIL 2024.

Tim Marra, Owner Marra Marine

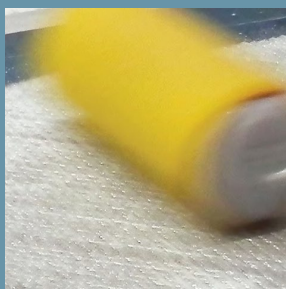
<https://www.marramarine.co.nz/>

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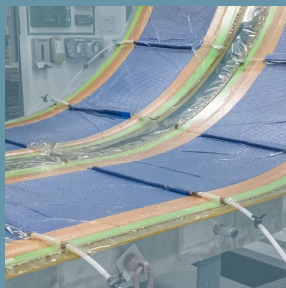
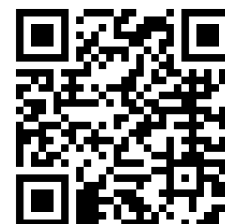
## Gurit formulated products

Gurit offers a range of high-performance epoxy products formulated to meet customer needs.



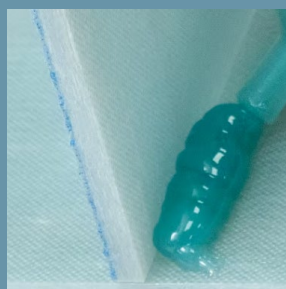
### Ampreg™ 3X series lamination system

The award-winning Ampreg™ 3X Series laminating system has been reformulated to prioritise user health and safety through careful selection of base chemicals. The new low toxicity resin matrix is CMR, SVHC and AEP free and the hardeners are classified as environmentally non-hazardous.



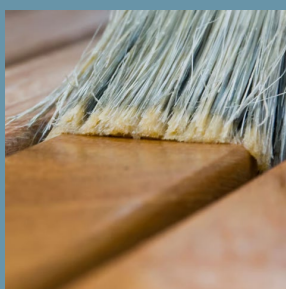
### PRIME™ 37 low toxicity infusion system

PRIME™ 37 is Lloyd's certified and is produced with bio-based content as standard. By using the award-winning Ampreg™ 3X low toxicity hardeners, PRIME™ 37 has market leading health and safety, and also allows customers to take advantage of the blendable hardener speeds which can be tailored to suit each application.



### Spabond adhesives

Spabond™ adhesives offer outstanding performance in high-stress, high-load marine applications with improved health and safety, better handling and processing properties.



### AMPRO™ multipurpose

AMPRO™ is an award winning, latest generation multi-purpose epoxy system from Gurit. It is a simple to use, all-purpose epoxy which can be used for bonding, coating, laminating and filling.



## Bio-based products as standard



PLANT / FOOD WASTE



CHEMICALS EXTRACTED



GURIT FORMULATIONS



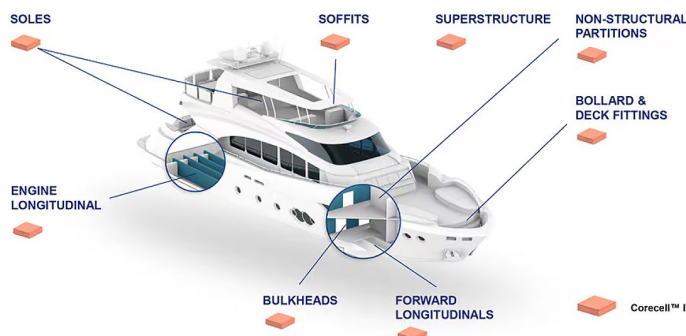
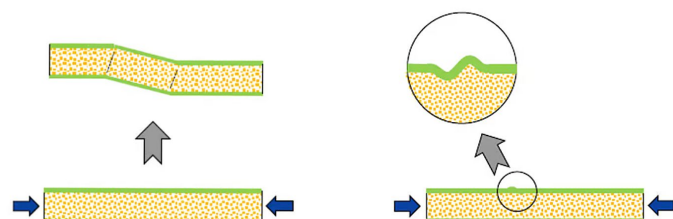
BIO-BASED AS STANDARD

# Introducing Gurit Corecell™ I

Corecell™ I is a general-purpose SAN core for Marine and Industrial applications. It provides well balanced mechanical properties with high shear modulus and inherent toughness, low resin absorption and good thermal stability in addition to the excellent handling and finishing.

## Benefits of Corecell™ I

Corecell™ I offers superior stiffness to prevent shear crimping and buckling. It also provides the highest CM (Compressive Modulus) x SM (Shear Modulus), which means that the core can stabilise lighter skins.



For more information: <https://www.gurit.com/products/corecell-i/>

## A diverse fleet for 2023 Rolex Sydney Hobart Yacht Race

One hundred and thirteen boats are entered to take on the iconic Australia ocean racing event – the 628 nautical mile Rolex Sydney Hobart Yacht Race on Boxing Day, organised by [Cruising Yacht Club of Australia](https://www.cruisingyachtclubofaustralia.com.au/) with the co-operation of [Royal Yacht Club of Tasmania](https://www.royalyachtcluboftasmania.com.au/).

There are 10 international entrants: from New Zealand, Hong Kong, New Caledonia, USA, France, Germany and Ireland. Australia is represented across all six states, with

New South Wales home to 60 entries, while Queensland fields 18, Victoria 15, Tasmania 7, Western Australia 2, and South Australia 1.

Over the years Gurit has provided advanced materials and engineering services to many of the competing yachts in this iconic Australia ocean race.

Find out more about the yachts here: <https://rolexsydneyhobart.com/the-yachts/>

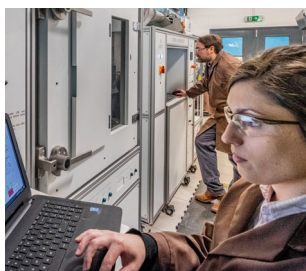


Ocean Crusaders, Ian & Annika Thomson completed the 2022 Rolex Sydney to Hobart race on the TP52, J-Bird.

## Gurit Marine regional contacts

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