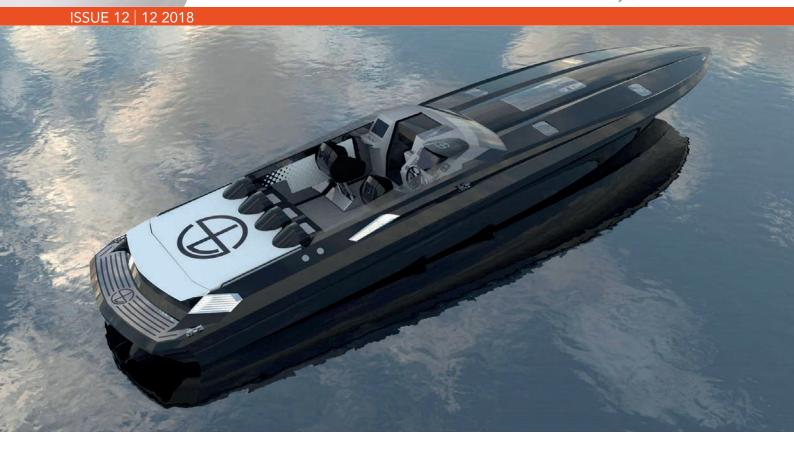
euromerenews

COMPOSITES by passion!



SUCCESS STORIES AT RASSAS CONSTRUCTION

WITH THE USE OF EUROMERE HYBRID RESIN TO INFUSE OFF-SHORE SL42



ne of the greatest example of what is an entrepreneurial company is shown with RASSAS CONSTRUCTION (Tunisia)! We're enjoying very much to present here in this issue this industrial and human success story.

First of all, this is less and less companies starting just with passion and able to develop this much activity and quality level in very short time and on its own so to say, and provide to the market this kind of results!



Speed, race and High performances are deeply printed in the DNA of this company. RASSAS CONSTRUCTION is not only producing Off Shore boats, but also Rally Raid Buggies, large sailing catamarans, racing catamarans, unique design motor boats...

Off Shore Racing and Pleasure boat construction is one of the most demanding Composite industry where Products & Processes are to perform at High Level! And these are probably the most suitable words if we want to describe the RASSAS CONSTRUCTION Company.

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To realize their models, RASSAS CONSTRUCTION decided to invest in an up to date CNC milling machine and developed processes to make models from polystyrene blocks and EUROMERE CNC-3000LG Sprayable Plug materials.

With this technology in hands, they're now the first Company in North Africa with this size potential equipment for modelling all kinds of shapes. Not only they're producing their own models, but some of the most well-known Boat builders in the world are now sub-contracting their needs for plugs and mold building there.

The project of the Off-Shore SL 42 started some years back. EURO-MERE came into this project with the need to supply the right resin chemistry to infuse this beast and offer the best possible properties. EUROMERE R&D people developed the **RESIMER 631** and **632** to answer the requested specifications.

RESIMER 631 is an isophthalic/DCPD hybrid blend with medium reactivity, low viscosity and fast curing with low exothermic peak, developed for Infusion process giving high and stable mechanical properties together with high water resistance.





RESIMER 631 PROPERTIES

PROPERTIES OF THE LIQUID RESIN

• Density: 1.05

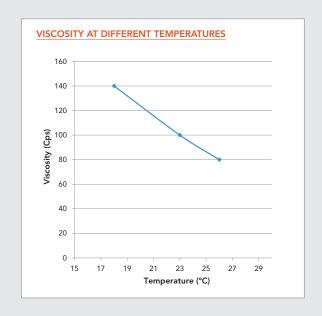
Static viscosity at 23 °C: 100 - 130 cps

Reactivity: 200 gr at 23 °C + 1.5% MEKP 50

Gel time: 120 - 140 minutes
 Time to pic: 145 - 165 minutes
 Exothermic pic: 165 ± 10 °C

PROPERTIES OF CURED RESIN

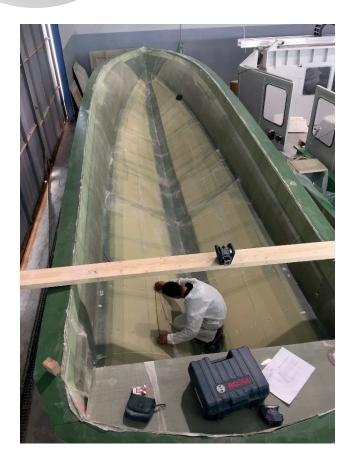
Tensile strength: 50 MPa
Tensile modulus: 50 MPa
Flexural strength: 90 MPa
Flexural modulus: 3300 MPa
Elongation at break: 2,1 %
HDT: 70 °C



REACTIVITY AT VARIOUS TEMPERATURES AND CATALYST RATIO (200 GR MASS)

	% PMEC 50	1%	1,25%	1,50%	1,75%	2%	2,25%	2,50%	2,75%	3%	3,25%
15 °C	Gel 28 °C								163'9	161'8	152'5
	Polym								185'9	181'4	170'6
	T° C pic								163,4 °C	171,5 °C	171,2 °C
20 °C	Gel 28 °C				150'5	130'9	117'2				
	Polym				180'8	156'2	141'				
	T° C pic				155,2 °C	169,7 °C	174,7 °C				
25 °C	Gel 28 °C	127'4	106'								
	Polym	159'2	143'1								
	T° C pic	125,7 °C	154,8 °C								

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Boat design, plugs & molds, production process... all developed and done at RASSAS CONSTRUCTION.





