

ArmaPET[®] CASE STUDY

FULL YACHT IN PET SANDWICH by MULTITECH MARINE (IN)

BACKGROUND

The company Multitech marine, based in Mumbai, India, have built a yacht entirely out of composite and sandwich structures. In their original design, using PVC foam core, they were met with various challenges, specifically linked with the total weight and resin uptake, all this driving the total cost significantly higher.

WHY ARMAPET?

Multitech Marine originally contacted Armacell because they wanted a more sustainable core, and our foam core based on 100% post-consumer PET fit this need. They were not expecting our ArmaPET foam core to work so well for the Marine market, explaining that it's "when we tried Armacell PET core, we realized all the advantages of the r-PET foam":

- Top of line compatibility with resins and other materials in composite construction.
- The availability in size and thickness, supported by a world class supply chain to guaranteed premium service.
- The resistance to humidity and its high repairability: the foam core keeps its strength and does not rot, even under high amount of humidity penetration. And even if there is a small defect, it is very easy to repair using its thermoplastic properties.
- It's very high mechanical properties and impact resistance.

And this is the final result!



“Based on Armacell technical advice, we decided to use ArmaPET Struct GR80 in 15mm, with our epoxy resin and advanced stitched fabric. The result was really high-end build, even better than what we imagined. Definitely a five-star product for me”.

Thank you, Multitech Marine, for trusting us, and making the choice for a more sustainable, recycled, and recyclable foam core for your boat construction!

TO GO BEYOND BETTER

To support the Marine Market even further, our new foam core ARMAPET Struct GRX brings top of the line resin uptake, while keeping the strength that made ArmaPET famous:

- **SUSTAINABLE**
- **Very low water absorption and does not rot.**
- **Easy and cheap to repair.**
- **Small variation in product properties**
- **Compatibility with gelcoats and resins**
- **Trustworthy global supply chain: 95% OTIF worldwide**

ArmaPET foam cores can be used to make the whole boat, but if you are looking for specific applications this is some examples of what our clients are using!

Where?	Transoms	Hull sides	Decks	Stringers/ Bulkheads	Consoles	Hatch lids
ArmaPET	GRX200 and 250	GRX85, 100 and 115	GRX100, 115 and 150	GRX 70 and 85	GRX 70, 85 and 100	GRX100 and 250

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