

Introduction to Fibre Reinforced Plastics (FRP)

What is FRP

Fibre Reinforced Plastics (FRP) is the generic term for a uniquely versatile family of composites used in everything from chemical plant to luxury power boats. An FRP structure typically consists of an unsaturated polyester (UP) resin applied to a mould in combination with reinforcement, most commonly glass fibre, to form a part that is rigid, highly durable and low in weight. FRP provides an unrivalled combination of properties:

- Light weight
- High strength-to-weight ratio (kilo-for-kilo it's stronger than steel)
- Design freedom
- High levels of stiffness
- Chemical resistance
- Good electrical insulating properties
- Retention of dimensional stability across a wide range of temperatures

Typical applications

Building and Construction

With its low maintenance and low weight, FRP is finding many applications building and infrastructure projects. UP resins can be mixed with glass fibre and fillers to cast synthetic marble and solid surfaces for kitchens and bathrooms, as well as roof tiles. For large projects such as bridges and wind generators, low weight for easier installation combined with low maintenance and durability make FRP an ideal alternative to conventional materials.



Above: Low weight and high strength makes FRP ideal for windmill blades.

Left: UP resin is mixed with special mineral fillers to cast these solid surface kitchen work tops.



The Azimut 116, flag ship of Cantieri Azimut Yachts. FRP is the choice construction material for boat builders throughout the world.

Marine industry

Marine is an excellent example of an industry that has been completely transformed with the advent of FRP. Especially in the leisure boat sector, FRP has largely replaced traditional wood and steel building methods. An outer layer of gelcoat gives unlimited colour options, weather protection and a high gloss, low maintenance finish to boat hulls and decks. FRP is used in the construction of boats in all shapes and sizes from competition kayaks to sailing yachts to 'floating gin palaces'. The material is also used for naval vessels such as submarines, mine hunters and high speed patrol boats.

Transportation

Low weight, mouldability and high quality surface finishes make FRP an ideal material for automotive car body panels such as tailgates, fenders, roofs and complete truck cabs. High dimensional tolerance and heat resistance also makes FRP parts highly suitable for structural and under-bonnet parts such as engine sumps, valve covers and front assemblies. Separate metal components can be replaced by a single multi-functional FRP part.



FRP enables attractive and complex shapes to be moulded. Coefficient of expansion is similar to steel so a good panel fit is assured.

Review Of The Science Of Fibre Reinforced Plastics The

Yijin Wang



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