

Multi-Purpose Composite Marine Craft Manufactured by CTruk Boats Ltd Using Crystic® Crestomer 1152PA

Company Profile - CTruk Boats Ltd

LOCATION : BRIGHTLINGSEA, ESSEX, UK

CTruk Boats Ltd designs and builds multi-purpose composite marine craft used as workboats for offshore wind farm support, as well as customised vessels for military, security, disaster relief and commercial applications.

Established in 2010, the company has a clear business mission to provide safe, fast and highly flexible working vessels by taking an innovative design approach. The company's patented modular pod system, initially created to meet the complex requirements of offshore wind support work, is a key example of CTruk's innovative design approach to problem solving. The unique 'moveable' FRP deck pods enable an operator to change the vessel's functionality in just a few hours.



Crystic® Crestomer Application

Crystic® Crestomer 1152PA

To further reduce weight, increase productivity and cut labour costs, CTruk uses a structural adhesive where possible for FRP-FRP joint bonding in its designs. Scott Bader's Crystic Crestomer® 1152PA (DNV approved) urethane acrylate structural adhesive has therefore been specified by CTruk for all composite marine craft, for structurally bonding hull stringers and bulkheads, transom sections, engine beds, deck sections and for hull to deck joints.

The main deck beam, in spite of it being a high impact area, is joined only using Crystic® Crestomer 1152PA structural adhesive, as well as some of the hull and deckhouse structural flange connections.



Benefits/Advantages

- ✓ Excellent adhesive properties when bonding FRP to FRP
- ✓ Increased speed of production through excluding mechanical fixing, leading to increased output
- ✓ Helps keep the structure as light as possible without sacrificing strength
- ✓ Product meets stringent offshore vessel standards (DNV approved)
- ✓ Reduction in labour costs due to increased speed of production, without compromising on quality
- ✓ Technology developed and fully supported by Scott Bader

Customer Quote

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As we manufacture vessels to full marine classification, the company must use materials that have gone through rigorous type-approvals. The CTruk design team only specifies proven products that are known to meet DNV and BV requirements with reliable and consistent results. Crestomer 1152 is one such product, giving the advantages of high-elongation, toughness and impact resistance at an economical cost.

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Jim Cutts, Director of Engineering
CTruk Boats Ltd