

Making a **positive** difference

Crestomer[®] Bonding Bulkheads to an FRP Boat Hull

Crystic Crestomer[®] structural marine adhesives are used by the leading boat builders around the world. Customers using Crestomer 1152PA to bond bulkheads to hulls with fillet joints gain the following advantages compared to conventional laminated joints:

APPLICATION GUIDE

- Superior external cosmetics with zero print through of the joint
- Potential labour savings of more than 60%
- Better internal aesthetics, cleaner looking joints
- **Considerable weight savings**
- Much cleaner and easier to use improved working conditions
- Improved productivity
- Significantly reduced styrene emissions
- No grinding required

The unique chemistry of Crystic Crestomer[®] structural adhesives is perfectly suited to bulkhead bonding. Unlike other adhesives, Crystic Crestomers bond perfectly to all types of wood, including marine ply, teak, and pine, without any special preparatory treatment.

Crystic Crestomer 1152PA also offers significant superiority over polyester bonding pastes and GRP lamination in adhesion, impact resistance and resistance to crack propagation

For Bulkhead T-Joint Bonding

1 No additional laminate preparation is required to that needed for a conventional laminated joints. Ensure surfaces are prepared properly. If the laminate is less than 72 hours old then it should simply be clean and sound.

If it is over 72 hours old then you should use a peel ply in the area to be bonded. If a peel ply hasn't been used; if the laminate is over 72 hours old; or if the laminate uses a DCPD resin that has been exposed to UV light, then the following preparation of the surfaces to be bonded is recommended:

- (i) Solvent Wipe (Clean Acetone or Styrene)
- (ii) Abrade (80 grit paper). The dust should be removed completely, preferably by vacuum cleaner
- (iii) Solvent Wipe (Clean Acetone or Styrene)
- 7 Apply catalysed material into joint. The size of the bead applied depends on the gap size between the bulkhead and hull. Ensure that Crestomer fills this gap.









9 Ensure that the Crestomer fillet at least touches the line mentioned in Step 2 (A, below). If the fillet is short of the line, a larger fillet tool is required (B). If the line cannot be seen, a smaller fillet tool can be used (C).

The working time available for steps 6 - 9 is 50 minutes for Crestomer 1152PA*.

* at 25°C using 2% Butanox M50



* Advice on suitable machinery can be provided on request

10 The support structure for the bulkheads can be carefully removed 2 hours after the Crestomer was catalysed, but care should be taken to ensure no excessive loads are placed on the bulkheads for 12 hours.



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We pioneer the future of chemistry, making a **positive** difference to all businesses we serve and each life we touch.



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