ATC specializes in the manufacture of poly/vinylester compounds used in the composites industry for structural bonding, gap filling, core installation, tooling in CNC router applications, general fairing, print-blocking and surface finishing.

**CORE-BOND®** **POLY-BOND®** **POLY-FAIR®** **POLY-FILL®**

![Diagram of applications]

**Polyester-based Structural Adhesives**

ATC Formulated Polymers Inc.

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website: www.atc-fp.com
POLY-BOND® B39
Structural Adhesive

Poly-Bond B39 polyester-based structural adhesives bond poly/vinylester parts primarily in boat building such as hull-deck joints, hull and deck liners and stringers.

Poly-Bond has been used successfully in thousands of boats and in a large variety of composite parts for over 10 years.

- RELIABLE STRENGTH IN THIN AND THICK BOND LINES
- EXCELLENT “WET-OUT” OF SURFACE
- NO VOLUME LOSS DURING PUMPING
- FAST PUMPING SPEED WITH LOW PUMPING PRESSURES
- OUTPUT OVER 2 GALLONS (7 LITERS) PER MINUTE
- HANGS WELL ON VERTICAL AND INVERTED SURFACES
- UNIQUE RHEOLOGY - STACKS WELL ON TOP OF STRINGERS
- FAST FOLLOW-THROUGH AFTER CURE FOR QUICK DEMOLDING
- STABLE PRODUCT - 12 MONTHS SHELF LIFE

Dispensing Poly-Bond B39 through pumping equipment for bonding hull liners

Applying B39 through a static mixer to bond a transom

Poly-Bond, catalyzed with red MEKP, is pumped to a fiberglass part prior to being bonded. The pink color provides visual proof that the catalyst is well mixed. It will lose its color once the B39 has cured.

A typical installation shows the forward liner section that has been bonded with Poly-Bond B39.

Poly-Bond B39 is an excellent product for filling the strakes in powerboats. It has a high degree of toughness, low shrinkage, does not crack in a thick section and adheres well to the laminate in the strakes.

Poly-Bond B39
B39 is the widely used standard version, which has performed well in many bonding and gap-filling applications.

Poly-Bond B39HP
B39 HP (High Production) has a shorter gel time for faster demolding cycles.

Poly-Bond B39LD
B39LD (Low Density) is the new lower density version, and is approx. 15% lighter than the B39 and B39HP. Despite the lighter weight, B39LD has excellent bond strength.

Poly-Bond B39 Properties

<table>
<thead>
<tr>
<th></th>
<th>B39</th>
<th>B39 HP</th>
<th>B39 LD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>Off-White</td>
<td>Off-white</td>
<td>Off-white</td>
</tr>
<tr>
<td><strong>Density, g/cc</strong></td>
<td>1-1.10</td>
<td>1.1-1.0</td>
<td>0.81-0.87</td>
</tr>
<tr>
<td><strong>Shrinkage</strong></td>
<td>&lt; 1%</td>
<td>&lt; 1%</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td><strong>Catalyst System</strong></td>
<td>MEKP</td>
<td>MEKP</td>
<td>MEKP</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Gun/Hand</td>
<td>Gun/Hand</td>
<td>Gun/Hand</td>
</tr>
<tr>
<td><strong>Bond line Thickness</strong></td>
<td>1/8-1* (3-25mm)</td>
<td>1/8-1* (3-25mm)</td>
<td>1/8-1* (3-25mm)</td>
</tr>
<tr>
<td><strong>Versions</strong></td>
<td>W, S</td>
<td>R</td>
<td>W, S</td>
</tr>
</tbody>
</table>

* 100 Gram Mass  ** - Regular; S - Summer; W - Winter

Poly-Bond B39 has been pumped into the bottom of a sailboat in preparation for bonding the interior liner.

Bonding and Fairing Compounds for the Composites Industry