

Glass Installation Products & Procedures

Area Affected: Marine laminated glass including special laminated constructions, insulated products, and high performance heat reflecting products (HPMLXIR-CG).

Dates effected: Completed installations and to be performed installations.

Summary: Yacht owners/ managers need to maintain by annual or semi-annual inspection of the sealant around the windows to ensure that the adhesive and/or sealant used is performing to its intended standards. If any issue is observed, contact ProCurve Glass Technologies or a marine glass installer to correct the issue immediately. Performing this inspection annually will help maintain the quality, beauty, durability and longevity of your windows.



Description: There is a high risk that installations using glazing adhesive, tip-out sealant, shims or spacers will contain plasticizers. It is important to consider the compatibility between the glass construction, adhesives, sealants, surface preparation and setting products to ensure that a durable, long lasting bond can be formed and will last as desired.

Problem Materials: Materials such as StarBoard, Polystyrene, PTFE or Urethane based spacers and/or setting blocks, if used during the installation, **MUST BE REMOVED** once adhesive has set.

Chemistry: Products such as these pose a risk of leaching plasticizers which degrade the adhesive or sealant. Plasticizers also create a threat to breaking down the interlayer of laminated glass, leading to interlayer discoloration and ultimately delamination.

Installation Recommendations: Never use a filler product to reduce the amount of adhesive used for the bond line or tip out. Using a gap filler such as StarBoard, Polystyrene, PTFE or Urethane based products, aside from the reasons listed above, will cause the sealant bond width to be undersized, thus not providing enough strength to perform to its intended quality.

Bond Strength: Marine based adhesives and sealants are engineered to provide elastomeric properties which account for the constant movement of a marine vessel. When insufficient volumes of adhesive or sealant is used, its performance characteristics also become inadequate for that application, which can lead to failure in the adhesive or sealant, shortening the lifespan of your glass.

What to do now: For installed glass inspect the caulk/sealant joint to determine if it has a spongy texture, has discolored, or has the presence of cracking between the edge of the laminated glass and the sealant. Inspect the glass perimeter to determine the presence of any discoloration or delamination. If not performed by on-board maintenance there are independent glass installers that are qualified to do this and do not normally charge for this service.

Going Forward: Products that are known to leach plasticizers over time will instigate a negative interaction between glass interlayer and degrade the performance of incompatible adhesive and sealant products. Products that contain plasticizers should **NOT** be used in the installation process of our HPML products.