

## Puget Sound Naval Shipyard, Building 460 - Bremerton, WA

**Owner:** U.S. Navy • **Installer:** Sabelhaus West, Inc.

**Fiberlock Products Used:** Grip-Tack™ - Adhesive Lockdown Primer • T-B-C Transite Barrier Compound™ - Asbestos Transite Encapsulant • L-B-C Lead Barrier Compound® - Lead-based Paint Encapsulant



**Focus Issues/Challenges:** The exterior of Building 460 consists of cementitious structural siding panels that contain asbestos. Lead-based paint is present on the frames of 27,800 window panes. The paint dated to the original oil-based coatings applied after construction in 1941. By 2009, colors had faded, and paint was delaminating. The siding was chalking, powdery, and in some places, friable. Challenges included gusty winds off the water, fog and precipitation, changes in temperature, and removal of moss, algae, salt and other particulates prior to application of any coatings.

**Cost Savings:** Original estimates to remove the lead paint and install new siding were projected to be \$6.2 Million. Including both materials and labor, the application of encapsulating coatings systems was estimated at a little over \$2 Million.

**Solution:** Sabelhaus West and their preferred product supplier turned to Fiberlock Technologies for a cost effective, permanent system of solutions for the challenges posed by the aged lead and asbestos-containing exterior surfaces. Fiberlock's solution involved three key products: Grip-Tack™, T-B-C Transite Barrier Compound™ and L-B-C Lead Barrier Compound®. Both encapsulants (T-B-C and L-B-C) were custom tinted to match the original 1941 colors of the building, meeting the Navy's required color and finish while eliminating the material and labor expense that would have been involved in additional topcoats of ordinary paint.

**Results:** Building 460 was restored ahead of schedule and all parties were extremely satisfied with the results. By utilizing encapsulation as a mitigation method, the environmental challenges of the asbestos and lead-based paint were addressed while the restoration of the authentic original appearance of Building 460 was faithfully restored. The ability to achieve these goals simultaneously via encapsulation was acknowledged by all parties as the method that made the project possible within schedule and budget. Numerous stories were run by the local press expressing the community's excitement over the restored building and its positive impact on Bremerton's waterfront.