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Technical Bulletin

Subject: Corrosive effects from Eco Red Shield™ Coatings.

Eco Building Products, Inc (ECOB) wood protection are factory applied topical coatings for the treatment of all vertical framing members including Dimensional, Panels and Engineered Wood Products (EWP's). The Patent Pending WoodSurfaceFilm™ formulation is designed to control moisture, changing the permeability of the substrate. ECOB's WoodSurfaceFilm™ is designed to encapsulate various solids into the wood fibers for the life of the substrate providing protection from Mold, Wood Rot, Termites and Fire Inhibition. The Eco Red Shield coating shall be categorized similar to an acrylic paint primer.

Eco Building Products has performed an entire suite of testing regiments by LSU AgCenter's Wood Durability Lab, an IAS accredited body, in compliance with ASTM & AWPA standards. One test performed was the AWPA E12-08 (AWPA 2008) corrosion test with five metals against Douglas fir treated with Eco Red Shield treatment. Also included in this test were an untreated southern yellow pine (SYP) control, a Douglas fir (DF) control, and an alkaline copper quaternary (ACQ) positive control. The test included 10 samples of each metal for each treatment. Metal coupons, measuring 1in. x 2in. x 1/16in., were used in this test. The metals were SAE 1010 steel (steel), 85-15 red brass (BR) , bare 2024-T3 aluminum alloy (AL), ASTM A123 hot dip zinc galvanized steel (HD GAL), ASTM A654 G90 galvanized steel (GAL).

This series of testing was performed in accordance with American Wood Protection Association (AWPA) E12-08 Standard Method of Determining Corrosion of Metal In Contact With Treated Wood (AWPA 2008). The test samples were subjected to 366 hours of exposure at 49 °C (120°F) and a relative humidity of 90%. Upon completion of the testing weight loss of the metal coupons are compared and calculated.

All coupons exposed to the Eco Red Shield treated wood indicated significantly less weight loss than the ACQ treated for all metal types. Eco Red Shield treated wood indicated similar results with untreated SYP and Douglas Fir for all metal types with the exception of steel.

In summary you can conclude from these certified tests that use of common nails, stringers, fasteners and truss plates in contact with Eco Red Shield coated wood substrates will perform exactly the same as untreated wood. The only exception is raw steel that will corrode from typical surrounding humidity exposure. Being that metal corrosion testing is the extreme case conditions you can summarize that all other materials derived from nonmetal substrates such as PVC, CPVC, Ceramics or similar materials shall not have any corrosive action or reaction from direct exposure to Eco Red Shield topically coated wood substrates. Full testing reports can be obtained by email request to info@ecob.net

Regards,

A handwritten signature in black ink that reads "Mark Vuozzo".

Mark Vuozzo
Chief Technical Officer