

HOOVER TREATED WOOD PRODUCTS, INC

TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: www.frtw.com or 1-800-TEC-WOOD (832-9663)

FINISHING GUIDELINES

EXTERIOR FIRE-X[®] Exterior Fire-Retardant-Treated Wood

EXTERIOR FIRE-X[®] treated wood can be finished or adhered with good results. The treatment chemicals are waterborne and contain no petroleum or solvents. Precautions and procedures for finishing or gluing **EXTERIOR FIRE-X[®]** are similar to those for untreated wood. As with untreated wood, finish performance is highly dependent on moisture content, species, surface preparation, application method, and product system.

MOISTURE CONTENT: Moisture content is a critical factor in determining the effectiveness of finishes or adhesives for use with wood, whether treated or untreated. Unfortunately, post-installation drying and moisture content stabilization is often overlooked in the rush to complete a construction project. If moisture content is too high, results will be poor. Consult with finish or adhesive manufacturers to determine best application parameters.

EXTERIOR FIRE-X[®] treated wood should not be painted or stained immediately after installation. Finishing should be done after a period of dry, sunny weather when wood moisture content is uniformly low. Even though **EXTERIOR FIRE-X[®]** is always kiln dried after treatment (KDAT) additional drying time is necessary after installation because of possible re-wetting on the job or moisture gain due to high humidity. Furthermore, even freshly KDAT wood will not have uniformly low enough moisture content for painting or staining, and shop application of paint or stain to freshly un-bundled wood is not recommended.

PAINT OR STAIN? According to the U.S. Forest Products Laboratory (**FPL**), wood shrinkage and swelling due to fluctuating moisture content constantly stresses a paint film and will cause cracking and peeling. Consequently, for exterior wood, penetrating stains are likely to perform better because they don't crack or peel.

FPL studies show that all-acrylic latex solid-color stains are generally superior to oil-based solid-color stains on exterior wood when two coats are applied. Stain-blocking primers are recommended. Brush application is more effective than spray or roller application. Primer and finish coat should be from the same manufacturer. If cracks and checks develop later, apply a clear water-repellent preservative.

If paint is used, **FPL** testing shows that two coats of all-acrylic topcoat paint applied over a stain-blocking acrylic latex primer lasts longer than other paint systems for exterior wood. Oil-based paint films usually provide the best moisture shield, but they tend to become brittle and are more likely to crack and peel.

FPL recommends use of a paintable water-repellent preservative as the first coat. Any surface that cannot be reached after installation should be painted or given a protective water-repellent preservative coating before installation.

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CONTACT SURFACES: Surfaces where wood will be in contact and trap moisture should receive a coating of preservative such as copper naphthenate. It should be applied before assembly to the wood-to-wood surfaces of laminated beams or joists, beam-to-post attachments, top edges of joists, and other contact surfaces that trap moisture.

EXPOSED SURFACES: Exposed surfaces should receive a water-repellent preservative coating. Water repellent preservatives are recommended for all exterior wood because they reduce moisture absorption, shrinkage and cracking, plus they help prevent mold and mildew. Be sure to use paintable water repellent that also has a preservative ingredient. Exposed (non-contact) surfaces of **EXTERIOR FIRE-X[®]** joists, framing, and decking should be coated on all sides with a paintable water-repellent preservative before or during installation. Water repellent preservative coatings should be re-applied regularly per the manufacturer's recommendation because they are not permanent.

SURFACE PREPARATION: Surface preparation is very important for adherence, painting, or staining. In addition to being thoroughly dry, the surface must be free of dirt, surface deposits, pitch, dust, mildew and other contaminants. Sanding, scraping, brushing or wiping may be necessary to clean the surface. Avoid washing because it re-wets the wood.

TESTING OF FINISHES: Due to the infinite variety of weather conditions, building exposures, storage conditions, finishing systems, adhesives, and construction techniques, Hoover Treated Wood Products Inc. cannot make more detailed recommendations for use of **EXTERIOR FIRE-X[®]** treated wood and accepts no liability with regards to the finishing or adherence of its products.

IT IS THE USER'S RESPONSIBILITY TO TEST THE DESIRED PRODUCTS ON SAMPLE MATERIAL AND EXPOSE TO ACTUAL USE CONDITIONS TO DETERMINE IF THE DESIRED EFFECT CAN BE OBTAINED.