



TECHNICAL DATA SHEET

STRONGBOND EPOXY WOOD SEALER

SUPER-THIN VISCOSITY EPOXY WOOD SEALER AND PRIMER

PRODUCT DESCRIPTION

STRONGBOND EPOXY WOOD SEALER is a two-component, high-strength, super-thin viscosity epoxy ideal for repairing dry-rotted or damaged wood. It migrates deep into the voids and hairline capillaries of abnormal porosity in the wood to restore structural strength and seal-out moisture and invasive insects.

The long-lasting bonding capabilities of this product are exceptional. Whether it is used as a sealer or as an adhesive-promoting primer it is excellent for both exterior and interior applications. Its rapid-curing capabilities reduce the time it takes to complete wood restoration projects, and because it is low-odor, low-VOC and solvent-free, it not only is safer but more pleasant to use.

USES

- Epoxy resin bonding for dry-rot repair. Excellent for both horizontal and vertical applications.
- Typically used prior to application of STRONGBOND EPOXY WOOD FILLER as part of the dry-rot repair process. Filler can be applied over uncured Sealer once the sealer becomes tacky, and the two will cure together.
- Can also be used as an adhesion-promoting primer for water-based paints and epoxy-compatible topcoats and on both repaired and new wood.
- Ideal for wood window frames and sills, rafter tails, exposed beams, decks, doors, floors, fences, boat hulls, bathroom subfloors, and many other wooden structural and decorative elements.

FEATURES / ADVANTAGES

- Deep penetration into fine- to very fine capillaries: 0.0025 in. to 0.125 in. (0.06 mm to 3.2-mm) using surface tension and capillary action
- Chemically bonds to substrate for long-lasting restoration of the strength and durability of the wood and its resistance to invasive insects
- Fast-curing and non-shrink
- Moisture-insensitive; can be applied on damp surfaces
- Low VOC, low odor, and solvent-free

- Easy-dispensing with coaxial cartridges, which are packaged with a nozzle that automatically mixes the product in the precise ratio. Cartridges fit into standard 10 oz. caulking guns for flow-control installation

PRODUCT INFORMATION

Availability	Restore-Rite™ products are available through select distributors.
Available Sizes	Coaxial Cartridge – 6.1 oz. (180 ml) Includes 1 mixing nozzle that automatically mixes a precise ratio of Parts A and B. (Cartridges fit into standard 10 oz. caulking guns.) Bulk-Packaging – 1.5 Quart Kit Kit contains 32 oz. (946 ml) Part A and 16 oz (473 ml) Part B for 2:1 mixing ratio
Application Temperature	50 °F - 100 °F (10 °C to 38 °C)
Color	Part A (Resin) Clear: Part B (Hardener) Amber; Mixed: Amber
Mix Ratio	2:1 by volume (refer to MPII in this TDS)
Pot Life	8 minutes at 75°F (bulk mixed) measured on 1 gallon (3.8 L) Pot life is longer for smaller bulk-mixed amounts.
Shelf Life	24 months in unopened containers stored in dry conditions High relative humidity and excessive heat reduces shelf life.
Storage	Store between 40°F (4 °C) and 90°F (32 °C) Keep in a dry place away from direct sunlight; avoid freezing.
Tack-free Time	24 hr. at 75°F (30 mil thin film)
Viscosity (Mixed)	195 cP
VOC Content	22 g/L (mixed)
Working Time	30 minutes at 75°F (nozzle)

LIMITATIONS & WARNINGS

- Cartridge balancing and other installation instructions must be strictly followed. (Refer to MPII in this TDS.)

- For installations below 70°F condition (warm) cartridge to 70-75 F.
- Do not thin with solvents as this will prevent cure
- DO NOT mix more than 6 oz. (4 oz. Part A and 2 oz. Part B) at one time to avoid overheating. (Refer to MPII in this TDS).
- NEVER leave mixed epoxy in an unattended open container as its thermolytic process generates heat and it will eventually heat-up and produce smoke.
- When using on sound new wood, Sealer should cure a minimum of 30 MINUTES prior to application of water-based paints or other epoxy-compatible topcoats.
- Not intended for aesthetic finishes as product may turn amber when exposed to UV light. When used as part of the dry-rot restoration process, once Sealer becomes tacky, Filler may be applied over it and the two will cure together. Once Filler does not stick to the sandpaper, it can be mechanically sanded to shape and painted with an epoxy-compatible topcoat. When Sealer is used as an adhesion-promoting primer, once it becomes tacky it may be coated or painted to meet desired appearance. (Refer to MPII in this TDS.)
- Not intended for use on damaged weight-bearing structural elements. Consult an architect.

Clean Up:

Always wear appropriate protective equipment such as chemical-resistant nitrile rubber gloves and splash-proof safety chemical goggles during cleanup. Clean uncured materials from tools and equipment with a mild solvent, such as mineral spirits. Cured material can only be removed mechanically. Dispose of product in accordance with federal, state and local regulations.

Safety:

Always refer to the Safety Data Sheet (SDS) at www.restore-rite.com. Be sure to wear protective chemically-resistant gloves, clothing and goggles during application and clean-up. Ensure indoor areas are properly ventilated. For more information call New Enterprises at 1-415-722-9098. In an emergency, contact CHEM-TEL 1-800 255-3924 (24 hours).

INSTRUCTIONS

In order to achieve maximum results, **proper application is imperative**. Carefully read the Manufacturers Printed Installation Instructions (MPII). Always use the most current version of the MPII, due to occasional updates and revisions.

MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII)

SURFACE PREPARATION

Surface preparation will depend upon the application of the product. Dry-rotted/damaged wood must be clean, with all rotted/soft wood and paint in the repair area removed. **All dirt, oil, dry-rot debris, paint, wax, grease and dust must be removed.** Prepare the surface of the wood by roughing it mechanically; using a wire brush in a drill works best. A roughened surface is imperative for good adhesion. Always be sure bonding surfaces are prepared in advance before starting a new cartridge or mixing product. If at all possible, schedule dispensing to consume an entire cartridge at one time with no interruption of epoxy flow. For bulk, mix only enough product that can be used within the pot life.

CARTRIDGE PREPARATION

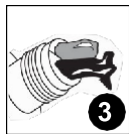
CAUTION: Check the expiration date on the cartridge to ensure it is not expired. **Do not use expired product!**



- 1. Shake the cartridge vigorously for 20 seconds** then stand cartridge upright for at least 1 minute allowing any bubbles to rise to the top.



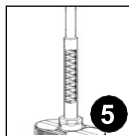
- 2.** Insert cartridge into the dispenser. Make sure it is properly positioned with the shoulder of the cartridge flush with the front/top bracket of the dispenser. **Point upward at about a 45° angle.** Remove the plastic cap and plug from the top of the cartridge.



- 3.** Continue to point upward—away from yourself and others—while slowly applying pressure to dispenser moving any bubbles and product up through the threaded part of the cartridge until it reaches the tip. Dispense this first full stroke of material into a disposable container. The cartridge is now purged and ready for flow-control installation.



- 4.** Remove the cap inside the threaded end of the mixing nozzle to find the flow-control plug. Insert plug into the two holes at the top of the cartridge where the product comes out. Make sure it is securely seated in place. Install mixing nozzle onto cartridge.

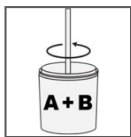


- 5.** Holding the dispenser straight up, slowly apply pressure to the dispenser moving any bubbles and product up through the nozzle until it reaches the tip. Tilting only slightly, dispense this full stroke of material into a disposable container. The cartridge is now purged and ready for use.

All usable material is completely dispensed when plunger reaches halfway.

NOTE: To prevent material from hardening in mixing nozzle, schedule dispensing to consume an entire cartridge at one time with no interruption of flow. If you have any problems in dispensing product, replace the nozzle; the product may have begun to cure in the nozzle which will affect the mix ratio. ***NEVER transfer a used nozzle to a new cartridge and DO NOT attempt to force adhesive out of a hardened mixing nozzle.*** After replacing the nozzle, repeat the cartridge-balancing steps listed above.

BULK MIXING



1. Thoroughly stir each component separately before mixing them together. Mix only the amount of material that can be used before the pot life expires.
2. Proportion parts by volume into a clean pail at the exact and proper mix ratio. STRONGBOND EPOXY WOOD SEALER uses 2 parts by volume of component Part A and 1 part by volume of component Part B. **Do not mix more than 6 oz. (4 oz. of Part A and 2 oz. of Part B) at a time to avoid overheating.**
3. Small batches can be mixed in a graduated mixing cup with a paint stir stick. Mix thoroughly and blend until a consistent color without streaks is achieved. Product also can be mixed with a low speed drill (400 – 600 rpm) with a paddle attachment (i.e. Jiffy mixer). Carefully scrape the sides and the bottom of the container while mixing. Keep the paddle below the surface of the material.
4. Immediately brush material onto substrate and spread thin. Keep applying until the wood will not accept any more product. Once the sealer becomes tacky, apply STRONGBOND EPOXY WOOD FILLER over it and they will cure together.

USE AS A PRIMER

When using as an adhesion-promoting primer on repaired wood, brush an even coat of bulk-mixed sealer to the clean and prepared wood surfaces. While the sealer is still tacky, apply water-based paint or other epoxy-compatible topcoat over it.

When using on new, sound wood, sealer should cure a minimum of 30 MINUTES before applying a topcoat.