



## **STRONGBOND EPOXY WOOD FILLER** **High-Strength Filler and Multi-Purpose Adhesive** **TECHNICAL DATA SHEET**

### **PRODUCT DESCRIPTION**

Restore-Rite's StrongBond Epoxy Wood Filler is a high-strength two-part epoxy for permanently repairing holes, cracks, and gaps in dry-rotted and deteriorated wood. Its non-sag, no-shrink formula completely fills in defects and areas of missing wood. The hard moisture-resistant surface it creates renews the wood's durability and acts as a waterproof barrier that protects the wood from future decay. StrongBond Filler also is an outstanding multi-purpose adhesive for repairing concrete, brick, fiberglass and most other surfaces.

Low-odor StrongBond Filler is pleasant and safe to use indoors and outdoors. Its solvent-free zero-VOC formula does not contain air-polluting chemicals that adversely affect people's health and the environment. Homeowners, DIY enthusiasts, professional contractors, and painters can use it to repair deteriorated windows, moldings, decks, doors, floors, and other parts of wooden buildings. When the Filler is applied over StrongBond Sealer, it chemically bonds with the Sealer and the wood, forming a durable barrier against moisture- and insect-related damage. Both the Sealer and Filler are rapid curing, allowing the wood to be restored to as good as new condition in as little as one day, if desired.

The Filler's easy-to-use 1/1 mixing ratio streamlines the blending of its two components: Part A (resin) and Part B (hardener). After it is thoroughly mixed, the general process is this: the Filler is applied to the wood, slightly overfilling the repair area. A few hours later, or at your convenience anytime after the Filler doesn't stick to the sandpaper, the hardened surface can be sanded, sawed, carved or drilled to reconstruct the original shape or create a new contour. The wood is then ready to be primed and painted with an epoxy-compatible topcoat.

StrongBond Filler also is an excellent multi-purpose adhesive. Its moisture-insensitive high-strength adhesion permanently bonds to concrete, ceramic, stone, fiberglass, and most other surfaces.

### **USES**

- Permanently repairs holes, cracks, and areas of missing wood
- Restores the shape and durability of deteriorated wood
- Safe to use indoors and outdoors, and for vertical and overhead applications
- Can be sanded, carved, drilled, sawed or machined to the desired shape
- Used as a fairing compound it fill-in air bubbles that may occur during sanding
- Ideal for repairing wooden window frames and sills, rafter tails, moldings, decks, doors, floors, fences, stair steps, columns, boat hulls, and other structural and decorative architectural elements
- Outstanding multi-purpose adhesive that bonds to most surfaces.

## FEATURES & ADVANTAGES

- Easy-to-use 1/1 mixing ratio
- Won't slump, sag, shrink or drip
- Creates a durable shield against intrusive moisture and insects
- Zero-VOC formula is safe to use and protects the environment
- Low-odor and solvent-free formula enhances adhesion
- Rapid curing shortens time to complete projects
- Moisture insensitive; can be applied on damp surfaces
- TIP: For filling large voids, a dry piece of scrap wood that has been treated with StrongBond Sealer can be used as a filler block, sometimes called a "Dutchman." Attach the block inside the void with wood screws. This process will allow a smaller amount of Filler to be used.

## PRODUCT INFORMATION

### Availability

Customers can purchase Restore-Rite® products directly from the website [www.restore-rite.com](http://www.restore-rite.com) or from a dealer listed on the website. If you have questions, call 415-722-9098.

### Sizes

#### **1 Quart Kit (RREF-1QT Kit)**

Kit contains 32 fl. oz. in two plastic tubs  
16 fl. oz. of Part A and 16 fl. oz. of Part B

#### **1 Gallon Kit (RREWF-1GA Kit)**

Kit contains 128 fl. oz. in two plastic tubs with handles  
64 fl. oz. of Part A + 64 fl. oz. of Part B

#### **Dual Cartridge (RREFC-DC)**

Contains 20.29 oz. of Part A and Part B

Comes with 2 static mixing nozzles that automatically mix Parts A&B in exact ratio (Additional mixing nozzles can be purchased separately; refer to Accessories list in Products at [www.restore-rite.com](http://www.restore-rite.com))

### Application Temperature

**40°F – 110°F (4°C – 43°C)**

### Color

**Part A (Resin) White; Part B (Hardener) Dark Gray; Mixed: Gray**

### Initial Cure Time

**3 hours at 75°F**

### Full Cure Time

**24 hours**

### Mix Ratio

**1:1 by volume of Part A and Part B** (refer to MPII in this TDS)

### Gel Time

**26 minutes at 75°F** (based on 2.12 fl. oz. of bulk-mixed material)

Product will cure slower in thinner film and/or colder temperatures and will cure faster in a larger mass and/or elevated temperatures.

## PRODUCT INFORMATION (continued)

<b>Shelf Life</b>	<b>2 years from date of manufacture</b> when stored in unopened containers in dry and cool conditions. High relative humidity and excessive heat reduces shelf life. Manufacturing date is printed on the product label.
<b>Storage</b>	<b>Store between 41 °F and 77 °F (5 °C – 25 °C)</b> Keep in a cool, dry place away from direct sunlight; avoid freezing.
<b>VOC Content</b>	<b>0</b>
<b>Working Time</b>	<b>4-6 hours at 75 °F</b>

## TECHNICAL CHARACTERISTICS

For information only, not for specification purposes

		<b>KG/CM<sup>2</sup></b>	<b>MPA</b>	<b>Psi</b>
<b>TENSIL STRENGTH</b>		125.85	12.34	1,790
<b>COMPRESSIVE STRENGTH</b>		399	38	2,730
<b>ELONGATION</b>	3.2%			
<b>HARDNESS, SHORE D</b>	53-55			

## MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII)

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

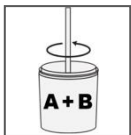
## SURFACE PREPARATION

Surface preparation will depend upon the application of the product. **For good adhesion, dry-rotted or damaged wood must be clean**, with all rotten/soft wood and paint, dust, oil, and wax removed.

**Bonding surfaces should be prepared and sealed with StrongBond Epoxy Wood Sealer for at least 1-3 hours BEFORE mixing and applying StrongBond Filler.**

## BULK MIXING

**NOTE:** If product is too cold it may become too thick; if product is too warm, the reaction will be faster than normal. (Proper temperatures are listed in Product Information in this Technical Data Sheet.)



- 1. Mix only the amount of material that can be used before the Gel Time expires** (refer to Product Information in this TDS).
- 2. Thoroughly stir Part A and Part B separately** in a clean pail with a paint stir stick or low-speed drill before mixing equal portions together.
- 3. Mix Ratio: 1/1 By Volume**  
Use 1 part by volume of Part A to 1 part by volume of Part B. Proportion parts by volume into a clean pail at the exact and proper mix ratio.

## BULK MIXING (continued)

- 4. Mix thoroughly for at least 3 minutes or until one solid gray color without streaks is uniformly blended.** Small amounts can be mixed with a putty knife or paint stir stick in a graduated mixing cup. Larger batches should be mixed in a clean container with a low-speed paddle mixer (i.e. Jiffy mixer).

While mixing, carefully scrape the sides and bottom of the container keeping the paddle below the surface of the material to avoid entrapping air. For best results, avoid picking up any unmixed material remaining on the sides or bottom of the container by transferring the mixed product to another clean pail before applying product.

- 5. Apply StrongBond Sealer at least 1-3 hours before applying Filler.** Slightly overfill the repair area with Filler so it can be sanded, carved or machined to desired shape.
- 6. Once the Sealer becomes tacky, or anytime afterward, StrongBond Filler can be applied over it.** The two products will cure together.

## DUAL CARTRIDGE OPERATION

Each dual cartridge comes with 2 static mixing nozzles that automatically mix the 2-part epoxies at a precise 1:1 ratio. The cartridges fit in a 22 oz. dual cartridge dispensing gun that helps deliver the consistent pressure important for smooth, efficient application. Additional mixing nozzles and dispensing guns can be purchased from the Accessories section at [www.restore-rite.com](http://www.restore-rite.com), or ask your local dealer.

### STEP 1: SURFACE PREPARATION

Surface preparation is the same as Bulk Mixing. (Refer to MPPI on previous page.)

**To ensure good adhesion the surface must be thoroughly cleaned and roughened.**

### STEP 2: INSTALLATION

Insert cartridge into the dispensing gun, with the shoulder flush with the front/top of the bracket. Remove the cartridge cap and plug.

**Before attaching the mixing nozzle, balance the cartridge** by slowly applying pressure to move product to the tip. Dispense a small amount of material until both components are flowing evenly. After balancing the cartridge, screw on the mixing nozzle supplied with the cartridge. Do not modify the mixing nozzle. Confirm that the internal mixing element is in place prior to dispensing the epoxy.

**Prior to injection,** check the Material Temperatures and review the Working and Tack-Free times listed in "Product Information" in this Technical Data Sheet.

### STEP 3: MIXING

Slowly move product to the tip. Then tilt the gun downward and trigger it to dispense an initial amount of product from the mixing nozzle onto a disposable surface until it is a uniform gray color. **Epoxy must be properly mixed in order to perform as published.**

NOTE: When bulk-mixed the Filler has a thick non-sag consistency, but in order for it to move through a cartridge it must be thinner. If cartridges are used for vertical and overhead applications be aware that when it is freshly mixed it will sag. Let it sit for 5 to 15 minutes so it will thicken and won't sag. Test it for consistency before applying product.

## USE AS A MULTI-PURPOSE ADHESIVE

StrongBond Epoxy Wood Filler is an outstanding multi-purpose adhesive that will permanently bond to most surfaces, including fiberglass, ceramic tile, concrete, stone, brick, and more. Use an appropriate amount of material for bonding to clean and prepared surfaces.

## LIMITATIONS & WARNINGS

- DO NOT dilute with solvents as this may prevent proper curing
- NEVER leave mixed epoxy in an unattended open container
- Beware of condensation. During application, the minimum Substrate Temperature should be 50 °F above dew point to a maximum of 110 °F, and Material Temperature 40 °F - 110 °F
- Use ONLY water-based paints, gloss-finish varnish, or other epoxy-compatible topcoats
- Not intended for aesthetic finishes as product may discolor or degrade when exposed to UV light
- Not intended for repairing damaged weight-bearing structural elements. Consult an architect.

## HEALTH & SAFETY INFORMATION

### Clean Up:

Always wear appropriate protective equipment such as chemically resistant nitrile rubber gloves, clothing, and safety chemical goggles during application and cleanup. Avoid contact with skin; if this occurs immediately wash skin with soap and water (NOT solvent) and rinse thoroughly.

Uncured materials on tools and equipment can be cleaned with a mild solvent, such as mineral spirits. Cured material on tools and equipment can only be removed mechanically. Dispose of product in accordance with federal, state and local regulations.

### Safety:

For information and advice on safe handling, storage, and disposal of chemical products, always refer to the Safety Data Sheet (SDS) at [www.restore-rite.com](http://www.restore-rite.com). Ensure indoor areas are properly ventilated and wear protective clothing.

For more information call New Enterprises at 1-415-722-9098.

**Emergency:** VelocityEHS 1-800 255-3924 (24 hours).