



STRONGBOND EPOXY WOOD PUTTY **Hand-Moldable Putty and Multi-Purpose Adhesive** **TECHNICAL DATA SHEET**

PRODUCT DESCRIPTION

Restore-Rite's StrongBond Epoxy Wood Putty is a hand-moldable two-part epoxy filler for permanently repairing and restoring dry-rotted and damaged wood. Its non-sag no-shrink consistency fills cracks, holes, and missing wood and can be sculpted to the desired shape. The hard moisture-resistant surface it creates renews the wood's durability and acts as a waterproof barrier against future decay. StrongBond Putty also is an excellent multi-purpose adhesive for repairing surfaces on concrete, metal, many plastics, and more.

High-performance StrongBond Putty can be safely used for indoor or outdoor projects, whether small or large. Its low-odor formula is free of air-polluting chemicals (VOCs) that adversely affect human health and the environment. Homeowners, DIY enthusiasts, professional contractors, and painters can use it to repair deteriorated window and door frames, moldings, decks, floors, fences, steps, columns, and other structural and decorative parts of wooden buildings.

Easy to mix and apply with gloved hands, StrongBond Putty can be pressed into holes, chips and cracks, or sculpted to rebuild areas of missing wood. Its solvent-free non-sag formula prevents shrinkage and enhances adhesion. When applied over StrongBond Sealer, the Putty chemically bonds with the Sealer and the wood, forming a protective waterproof barrier against damage from moisture and insects. Both the Sealer and Putty are fast curing, allowing the wood to be restored to as good as new condition in as little as one day, if desired.

The Putty'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 Putty is applied with gloved hands to slightly overfill the surface of the repair area. A few hours later, or at your convenience anytime after the Putty doesn't stick to the sandpaper, the 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.

Moisture-resistant StrongBond Putty also is an excellent multi-purpose adhesive for repairing chipped concrete, broken pottery or ceramics, loose auto trim and dents, replacing underwater pool tiles, and more.

USES

- Permanently repairs cracks, chips, holes, and 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
- Ideal for repairing and restoring damaged window frames and sills, rafter tails, moldings, decks, doors, floors fences, stair steps, columns, boat hulls, and other architectural elements
- Outstanding multi-purpose adhesive that bonds to most surfaces

FEATURES & ADVANTAGES

- No tools required for use. Can be mixed and molded with gloved hands
- Easy-to-use 1/1 mixing ratio
- Contains no VOCs (harmful chemical compounds)
- Non-sag no-shrink consistency
- Low-odor, solvent-free formula enhances adhesion
- Moisture insensitive; can be applied on damp surfaces
- Rapid curing shortens time to complete projects
- Ideal for overhead and vertical applications

PRODUCT INFORMATION

Availability	Restore-Rite® products are available through select distributors listed on the website at www.restore-rite.com . If a local dealer is not available, contact New Enterprises at 415-722-9098.
Sizes	1 Quart Kit (RREP-1QT Kit) Kit contains 32 fl. oz. in two plastic tubs with handles 16 fl. oz. of Part A + 16 fl. oz. of Part B
Application Temperature	32°F – 104°F (0°C – 40°C)
Color	Part A (resin) Creme; Part B (hardener) Beige; Mixed: Off-white
Initial Cure Time	2-3 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)
Shelf Life	2 years from date of manufacture 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.
Storage	Store between 41°F and 77°F (5 °C – 25 °C) Keep in a cool, dry place away from direct sunlight; avoid freezing.
VOC Content	0
Working Time	1-3 hours at 75°F Product will cure slower in thinner film and/or colder temperatures and will cure faster in a larger mass and/or elevated temperatures.

TECHNICAL CHARACTERISTICS

For information only, not for specification purposes

APPLICATION PROPERTIES	RESULTS	TEST METHOD
Hardness, Shore D (full cure, 24 hours)	80-82	ASTM D-2240
Lap Shear Tensile Strength on steel (1"x1"x1/16") lbs (full cure, 24 hours)	800 – 1,000	ASTM D-1002
Compressive Strength, lbs/in²	6,650 – 12,000	ASTM D-695
Shrinkage, %	< 1	ASTM D-2566
Electrical Resistance, megohms	30,000	ASTM D-257
Dielectric Strength, volts/mil	300	ASTM D-149

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, dry-rot debris, and paint, dust, oil, and wax removed.

Bonding surfaces should be prepared and sealed with STRONGBOND EPOXY WOOD SEALER 1-3 hours before mixing and applying STRONGBOND Putty.

BULK MIXING

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 the Product Information in this TDS.)

- 1. Always wear disposable nitrile or latex gloves when mixing and applying STRONGBOND Putty.**
- 2. Mix RATIO: 1/1 By Volume.** StrongBond Epoxy Wood Putty uses 1 part by volume of Part A to 1 part by volume of Part B. Proportion parts by volume at the exact and proper mix ratio.
- 3. Mix only the amount of material that can be used before the Working Time expires.**
(Refer to Product information in this TDS.)

BULK MIXING (continued)

- 4. Form material into equal size balls** with gloved hands, and place balls onto a clean surface. **Mix thoroughly** (either by hand or with a putty knife) **for at least 2 minutes or until material is one solid color with no lumps or streaks.**
- 5. Colored pigments or gel stains may be added** to mixed Putty prior to application.
- 6. When repairing dry-rotted wood or when fixing imperfections on new wood, apply STRONGBOND Sealer at least 1-3 hours before applying Putty.** Once the Sealer becomes tacky, STRONGBOND Putty can be applied over it immediately, or at your convenience anytime afterward.
- 7.** When filling holes or gouges, work the Putty into the cavity as much as possible to displace any air. **Slightly overfill the cavity** so it can be sanded or machined to shape. The moldable Putty can be used to rebuild a different shape if desired.

USE AS A GENERAL-PURPOSE ADHESIVE

StrongBond Epoxy Wood Putty is an excellent general-purpose adhesive that will make a strong, permanent bond to most surfaces, including metal, masonry, brick, concrete, ceramic tile, concrete, stone, fiberglass, and some plastics.

It can be used to repair cracked floor tiles, broken pottery or ceramics, loose auto trim and small dents, chipped concrete, to replace underwater pool tiles, etc.

Use an appropriate amount of material for bonding to clean and prepared surfaces.

LIMITATIONS & WARNINGS

- DO NOT dilute with solvents as this may prevent cure.
- NEVER leave mixed epoxy in an unattended open container.
- Best when applied in increments at a thickness of 1 inch or less. A larger mass may generate excessive heat.
- Use ONLY water-based paints 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. Uncured materials on tools and equipment can be cleaned with acetone, denatured alcohol, or lacquer thinner. 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.

Ensure indoor areas are properly ventilated and be sure to wear protective clothing.

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

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