

## J-B Weld 8277

# J-B Weld 8277 WaterWeld Adhesive Compound Instruction Manual

Model: 8277

## 1. INTRODUCTION

This manual provides instructions for the safe and effective use of J-B Weld 8277 WaterWeld Adhesive Compound. WaterWeld is a hand-mixable, two-part epoxy putty specifically formulated to cure underwater, making it suitable for repairs on plumbing, fuel tanks, tubs, showers, drains, pools, spas, boats, and potable water tanks. It is NSF certified for contact with potable water.

## 2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before use.

- Wear appropriate personal protective equipment, such as gloves, to avoid skin contact.
- Use in a well-ventilated area.
- Avoid contact with eyes. In case of contact, flush immediately with water for several minutes and seek medical attention.
- Keep out of reach of children and pets.
- Do not ingest. If swallowed, do not induce vomiting; seek medical attention immediately.
- Refer to the Safety Data Sheet (SDS) for more detailed safety information.

## 3. PRODUCT COMPONENTS

Each package of J-B Weld WaterWeld contains:

- One (1) stick of two-part epoxy putty (resin and hardener).

## 4. PREPARATION

Proper surface preparation is crucial for optimal adhesion.

1. Ensure the repair area is clean and free from dirt, grease, oil, or loose debris. For best results, roughen smooth surfaces with sandpaper or a wire brush.
2. For underwater applications, remove as much standing water as possible, though WaterWeld is designed to cure effectively in wet conditions.

3. Determine the amount of putty needed for the repair. It is recommended to cut off only the required amount to avoid waste.

## 5. APPLICATION INSTRUCTIONS

Follow these steps for effective application:

1. Cut off the desired amount of WaterWeld putty from the stick.
2. Knead the putty thoroughly with your fingers until it achieves a uniform color (off-white). This ensures proper mixing of the resin and hardener.
3. Apply the mixed putty firmly to the repair area. Press it into cracks, holes, or gaps, ensuring good contact with the surface.
4. For best results, apply within 2 minutes of mixing.



Image 1: J-B Weld WaterWeld epoxy putty stick. This image shows the product packaging, highlighting key features such as strength, set time, cure time, and suitable applications. The putty stick itself is visible, ready for use.



Image 2: Multiple J-B Weld WaterWeld epoxy putty sticks. This image displays a pack of six WaterWeld products, illustrating the typical retail presentation of the item.

## 6. CURING PROCESS

WaterWeld undergoes a chemical reaction to harden and bond.

- **Set Time:** Approximately 25 minutes. During this time, the putty will begin to harden and can be shaped or smoothed.
- **Cure Time:** Approximately 1 hour. The product will reach its functional strength after 1 hour.
- **Full Cure:** For maximum strength and chemical resistance, allow 24 hours for a full cure.
- The cured color is off-white.

## 7. USAGE GUIDELINES AND PERFORMANCE

J-B Weld WaterWeld is designed for a variety of applications and offers robust performance:

### Suitable Surfaces:

- Iron & Stainless Steel
- Copper & Brass
- Aluminum & Bronze
- Fiberglass
- Plastic & PVC

### Ideal Applications:

- Plumbing, Tubs, Showers & Drains
- Fuel Tanks
- Marine & Boats
- Potable Water Tanks (NSF certified)

### Performance Characteristics:

- **Lap Shear Strength:** 1300 PSI
- **Continuous Temperature Resistance:** Up to 300°F (149°C)
- **Intermittent Temperature Resistance:** Up to 350°F (176°C)

- **Chemical Resistance (when fully cured):** Petroleum, hydraulic fluids, and most other chemicals.
- **Water Resistance:** Waterproof.

## 8. MAINTENANCE AND STORAGE

To ensure the longevity and effectiveness of unused product:

- Store in a cool, dry place.
- Keep the original packaging sealed until ready for use.
- Avoid exposure to extreme temperatures.

## 9. TROUBLESHOOTING

### Problem: Putty does not harden.

**Possible Cause:** Insufficient mixing of the two components.

**Solution:** Ensure the putty is kneaded thoroughly until a uniform color is achieved before application.

### Problem: Poor adhesion.

**Possible Cause:** Inadequate surface preparation (e.g., surface was dirty, greasy, or too smooth).

**Solution:** Clean and roughen the surface before applying the putty. Ensure firm pressure is applied during application.

## 10. SPECIFICATIONS

Feature	Specification
Model Number	8277
Material	Resin
Item Form	Putty
Color	Gray (cures off-white)
Item Volume	59 Milliliters (2 oz.)
Set Time	25 minutes
Full Cure Time	1 hour (functional), 24 hours (full strength)
Tensile Strength	1300 PSI
Water Resistance Level	Waterproof
Temperature Resistance (Continuous)	Up to 300°F (149°C)
Temperature Resistance (Intermittent)	Up to 350°F (176°C)
Certifications	NSF certified for potable water contact
Product Dimensions	Approximately 2 x 2 x 2 inches (per stick)
Item Weight	Approximately 1.2 pounds (for a pack of 6)

## 11. WARRANTY AND SUPPORT

For specific warranty information or technical support, please contact J-B Weld customer service directly. Contact details can typically be found on the product packaging or the official J-B Weld website. For more information, visit the official J-B Weld Store:[J-B Weld Store](#).