

J-B Weld 50133

J-B Weld 50133 Plastic Bonder Structural Adhesive Syringe - Tan - 25 ml User Manual

Model: 50133

1. INTRODUCTION

The J-B Weld 50133 Plastic Bonder is a quick-setting, two-part urethane adhesive system designed for strong and lasting repairs on various plastic surfaces. This structural adhesive is suitable for thermoset, carbon fiber composites, thermoplastics, coated metals, concrete, and more. It features a convenient 1:1 mixing ratio and cures to a hard, permanent bond with a tan color.

What's in the Box:

- 1 x J-B Weld Plastic Bonder Syringe (25 ml)
- 1 x Instruction Guide

2. SAFETY INFORMATION

Always read and understand all instructions and safety warnings before using this product. Ensure adequate ventilation during use. Wear appropriate personal protective equipment, such as gloves and eye protection.

Proposition 65 Warning:

This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Keep out of reach of children. Avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water and seek medical advice. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

3. PRODUCT OVERVIEW

The J-B Weld Plastic Bonder is a high-strength structural adhesive designed for durable repairs. It offers a tensile strength of 3770 PSI, ensuring a robust bond.



Image 1: J-B Weld Plastic Bonder Syringe in its packaging, highlighting key features like 3770 PSI strength, 15-minute set time, and tan color.

Key Features:

- **High Strength:** Achieves a tensile strength of 3770 PSI.
- **Fast Setting:** Sets in 15 minutes.
- **Tan Color:** Cures to a tan finish.
- **Versatile:** Bonds to thermoset, carbon fiber composites, thermoplastics, coated metals, concrete, plastic, PVC, fiberglass, and aluminum.
- **Impact & Vibration Resistant:** Ideal for both flexible and rigid surfaces.
- **Re-sealable Syringe:** Features a unique cap to prevent drying out and leaking, allowing for multiple uses.

IMPACT & VIBRATION RESISTANT



**Ideal for both flexible
and rigid surfaces**

Image 2: Demonstrates the adhesive's application on a cracked surface, emphasizing its impact and vibration resistance for flexible and rigid materials.



HIGH STRENGTH



One square inch of PlasticBonder™ has enough tensile strength to hold 3770 lbs.

Image 3: Illustrates the high strength of the Plastic Bonder, rated at 3770 PSI.

4. PREPARATION

Surface Applications:

This product is effective on a wide range of materials, including:

- Thermoset & Carbon Fiber Composites
- Thermoplastics
- Coated Metals
- Plastic & PVC
- Concrete
- Ceramic & Tile
- Fiberglass
- Aluminum

GREAT FOR:



Most Flexible or Rigid Plastics

Not polypropylene or polyethylene

Good For: Fiberglass, Metal, Wood

Image 4: Visual representation of materials compatible with J-B Weld Plastic Bonder, including various plastics, fiberglass, metal, and wood.

Surface Preparation:

1. Ensure surfaces are clean, dry, and free from dirt, grease, oil, or loose debris.
2. For optimal adhesion, lightly abrade smooth surfaces with sandpaper or an abrasive pad.
3. Clean the abraded surfaces thoroughly to remove any dust.

5. SETUP & APPLICATION

1. **Prepare the Syringe:** Remove the cap from the syringe.
2. **Dispense and Discard Initial Amount:** Before applying to your project, dispense a small amount of the product onto a disposable surface (e.g., cardboard or scrap plastic) and discard it. This ensures an even 1:1 mix ratio of the two components for your actual application.
3. **Mix Components:** Dispense the desired amount of Plastic Bonder onto the included mixing tray or a clean, disposable surface. The syringe automatically dispenses both parts in a 1:1 ratio. Use the stir stick to thoroughly mix the two components until a uniform color is achieved.
4. **Apply Adhesive:** Apply the mixed adhesive to the prepared surfaces within the working time.
5. **Join Surfaces:** Firmly press the surfaces together and hold in place until the adhesive begins to set.

Clamping may be necessary for some applications.



Image 5: Close-up of the J-B Weld Plastic Bonder syringe, highlighting its re-sealable 'no waste' cap designed for multiple uses and preventing drying.

6. CURING PROCESS

- **Set Time:** The adhesive will begin to set in approximately 15 minutes. During this time, avoid disturbing the bonded parts.
- **Cure Time:** For full strength, allow the adhesive to cure for 30 hours.
- **Post-Cure:** Once fully cured, the bonded area can be sanded, drilled, or machined if necessary.



Image 6: Diagram illustrating the fast cure properties of J-B Weld Plastic Bonder, with a 15-minute set time and a 30-minute cure time for initial handling.

7. MAINTENANCE & STORAGE

- **Re-sealing:** After each use, securely replace the cap onto the syringe to prevent the adhesive from drying out and to ensure future usability.
- **Storage:** Store the syringe in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

- **Uneven Mix:** Always discard the very first bit of dispensed adhesive to ensure a proper 1:1 mix ratio for your application. The initial dispense may not be perfectly balanced.
- **Clogged Syringe:** If the epoxy side of the syringe becomes clogged between uses, gently clear the opening before attempting to dispense. Pushing the plunger forcefully into a clog can cause the product to blow out, creating a mess.
- **Weak Bond:** Ensure surfaces are properly cleaned and prepared (lightly abraded if smooth). Verify that the two components are thoroughly mixed before application. Allow adequate set and cure time.

9. SPECIFICATIONS

Specification	Detail
Item Model Number	50133
Brand	J-B Weld
Material	Epoxy
Item Form	Syringe
Product Dimensions	1.4 x 4.4 x 8.8 inches
Item Weight	1.6 ounces
Manufacturer Recommended Age	14 years and up
Special Features	Fast Drying, Impact Resistant, Strong
Specific Uses For Product	Auto Repairs, Craft, Household Repairs

10. WARRANTY & SUPPORT

For specific warranty information or product support, please contact J-B Weld directly through their official website or customer service channels. Details can typically be found on the product packaging or by visiting the [J-B Weld Store](#).