

# Zip Patch

**Description:** A fast-setting patch system for making permanent, waterproof field repairs.

**Intended Use:** Patching PVC/ABS piping, tanks, vessels, and containers. Repairing all substrates with a 1 hour functional cure.

**Features:**

- Low odor technology**
- Room temperature cure**
- Non-sagging formula**
- Bonds dissimilar substrates**
- Minimal surface preparation**
- Strong adhesion**

**Limitations:** Suitability of product is determined by the end user for their application and process.

**Typical Physical Properties:** Technical data should be considered representative or typical only and should not be used for specification purposes.

**Cured 7 Days @ 75°F (24°C)**

Adhesive Tensile Lap Shear (AL)	2,400 psi (16.5 MPa)
Adhesive Tensile Lap Shear (ABS, PVC)	1,200 psi (8.3 MPa)
Coefficient of thermal expansion (x10-6)	64 in/in.°F (115 cm/cm.°C)
Cured Shrinkage	0.0010 in/in (cm/cm)
Dielectric Strength	250 volts/mil (9.8 kV/mm)
Flexural strength	19,000 psi (131 MPa)
Hardness	70 Shore D
Solids by Volume	100
Tensile Elongation	15-25%
Tensile Modulus	192,000 psi (1,324 MPa)
Tensile Strength	10,000 psi (69 MPa)
Tpeel	35 pli (6.1 N/mm)

**Typical Values**

**Standard Tests**

Tensile Strength (Epoxy) ASTM D 638  
T-Peel Strength ASTM D 1876

**Uncured Properties @ 72°F (23°C)**

Average thickness	1 ply: 0.075 in. (1.9 mm)
Color	Brown
Coverage	4x9 in. (10x23 cm) patch
Fixture Time	1 hr.
Flashpoint	300°F (149°C)
Full Cure	4 hrs.
Functional Cure	1 hr.
Mixed Viscosity	17,000 cP
Pot Life	5 min
Service Temperature	200°F (93°C)

**Surface Preparation:** Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and optimize the bond strength

**Mixing Instructions:** Mixing is not applicable to this product. This is a primer system used to increase adhesion to your substrate. Follow instructions on the package for maximum results.

**Application Instructions:** Zip Patch requires minimal surface preparation. However, for maximum adhesion, the repair surface should be roughened and wiped clean with solvent. When making repairs to pipes, shut down the pressure. In tanks, pressure should be relieved by lowering the fluid level.

Apply only in well-ventilated areas. The Zip Patch kit contains everything required to make fast, permanent emergency repairs. First, carefully peel away one side of the foil pouch. Then spray the exposed patch surface lightly, but completely, (including the corners) with activator. Proper activation is indicated by the patch becoming darker in color.

Press the activated patch over the repair area and carefully peel back the remaining foil. Use the plastic applicator provided in the kit to eliminate entrapped air by gently smoothing the patch from the center toward the outer edges. Complete

**Storage:** Store between 55°F and 75°F (13°C and 24°C). Continuous storage above 75°F (24°C) reduces the shelf life of the materials. prolonged exposure above 100°F (38°C) quickly diminishes the product's reactivity, and should be avoided. Shelf life can be extended by refrigeration between 45°F and 55°F (7°C and 13°C). DO NOT FREEZE.

**Chemical Resistance:** Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)

Cutting Oil	Excellent
Gasoline (Unleaded)	Very good
Glycols/Antifreeze	Very good

**Precautions:** **FOR INDUSTRIAL USE ONLY:** Please refer to the appropriate Safety Data Sheet prior to using this product.

**Warranty:** ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

**Order Information:**

<u>Item No.</u>	<u>Package Size</u>
11500	4x9 in. (10x23 cm) patch

**Contacts:** [www.itwpp.com](http://www.itwpp.com)  
ITW Performance Polymers (EMEA)  
Bay 150, Shannon Industrial Estate  
Shannon, County Clare, Ireland V14 DF82  
TEL: +353 61 771 500  
FAX: +353 61 471 285  
Email: customerservice.shannon@itwpp.com

ITW Performance Polymers (US)  
30 Endicott Street  
Danvers, MA 01923 USA  
TEL: 855 489 7262  
FAX: 978 774 0516  
Email: info@itwpp.com

**Disclaimer:** **Product Use:** The information herein is based upon good faith testing that ITW PP believes are reliable, but the accuracy or completeness of such information is not guaranteed. Many factors beyond ITW PP control and uniquely within user's knowledge and control can affect the use and performance of an ITW PP product in a particular application. Given the variety of influencers on performance, the data here is not intended to substitute end user testing. It is the end users sole responsible for evaluating any ITW PP product and determining whether it is fit for a particular purpose and suitable for user's design, production, and final application.

**Exclusion of Warranties:** As to the herein described materials and test results, there are no warranties which extend beyond the description on the face hereof. ITW PP makes no other warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Since the use of the herein described involves many variables in methods of application, design, handling and/or use, the user, in accepting and using these materials, assumes all responsibility for the end result. ITW PP shall not otherwise be liable for loss of damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.