

Pillow Packer Installation 42-48"



KIT CONTENTS

- 1- Fiberglass Mat
- 10- Pre-measured Resin/Hardener bags
- 16- Disposable Gloves
- 20 - Nylon Zip Ties
- 1- Work Surface
- 2- Spreading Spatula
- 2- Packer Protection Sleeves
- 2- Rolls Electrician's Tape

EQUIPMENT CHECK LIST - Necessary for installation

- PipePatch Pillow Packer
- Fast-Inflate Control Box
- PipePatch 1/2" Air Hose with Relief Valve
- Wire Cutters
- Pull Cable
- Marking Pen
- High Volume Air Compressor
30 cu ft per min @ 90 psi
- Measuring Tape
- High Pressure Jetter
- Sewer Camera
- 2- 12"-18" Wide, Long Handled Squeegees



Read ALL Instructions and Inspect Kit Contents BEFORE Beginning! **MINIMUM OF 4 INSTALLERS REQUIRED for this type of repair.**

1) Inspection & Preparation: Using a sewer camera, visually inspect the damaged area. Clean the pipe to remove any roots or other debris. Inspect a second time to verify that pipe is clear of debris and determine that PipePatch is suitable for your specific application.

2) Measuring: Position the camera head at the center of the damaged area. Attach a piece of tape to the camera cable at the entry point into the sewer line. This will serve as the distance to the center of the patch on the packer.

3) Test your Equipment: First, blow off the relief valve on the *Fast-Inflate Control Box* and 1/2" Air Hose Reel (**see instructions on control box.**)

4) Prepare the Pillow Packer: Slide the protective sleeve over the pillow packer. Center the packer in the middle of the protective sleeve. Fold excess sleeve on top of the packer. Press the air fitting through the protective sleeve. Connect the pull cable harnesses to the packer. Bundle the ends of the sleeve around the pull cable harness and secure using a zip tie.

5) Preparing the airline/pull cable: Connect the air hose to the packer. Attach the pull cable to the harnesses at the packer ends. Securely tape the quick disconnects fitting to prevent accidental disconnection. Position the camera head at the center of the packer and transfer the measurements from the camera cable to the air hose/pull cable with vinyl tape.

6) Mixing Resin: Refer to the working time on the resin cure chart. Put on both pair of gloves. Layout the work surface, unfold the fiberglass mat and position it bright shiny side down (woven surface down). Remove clips from all resin bags and mix simultaneously until resin is a consistent color (about 1 minute).

IMPORTANT: Mix ALL resin at the same time. Once mixed, move immediately to Step 7. Work quickly to apply resin, prepare patch/packer assembly and install in pipe.

IMPORTANT NOTICE

- Installer must examine and determine whether the damaged pipe is repairable. Consult factory if necessary.
- The resin used in this system is ambient cure and is greatly affected by temperature. **Store in a cool place.** Working and curing time will be affected by temperature. Mixing temperature recommended at 70°F. **The warmer the resin the less working and curing time! The colder the resin the more working and curing time.**
- Ensure that the packer is protected in accordance with the installation instructions before wrapping the resin impregnated patch around the packer
- If the damaged pipe is not cleaned of sharp edges the packer could be punctured.
- This is a tested and proven system, use ONLY Source 1 Environmental PipePatch System Components.

7) Wetting Out: Open resin bags and pour 75% onto the fiberglass mat. Use the squeegees and spatulas to spread the resin evenly and liberally to coat the surface of the mat. Flip entire mat over. Pour out remaining resin and spread out evenly. Fold the right side of the wetted mat over to the **black** center line located on the woven side of the mat as shown in (Fig. 1). Fold the left side of patch overlapping the edge of the first fold by 1"(Fig. 2).

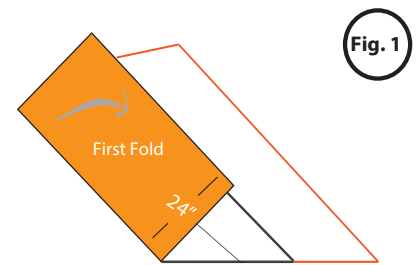


Fig. 1

8) Folding the Packer: Position the packer on the folded mat with the **left side** of the packer aligned with the **red** stripe (Fig. 3.). Fold the **left side** of the wetted mat over the packer and fold the excess under the packer's right edge (Fig. 4). Fold the **right side** of the wetted mat over the packer overlapping the first fold (Fig. 5). Fold the left side of the loaded packer over the air connection (Fig. 6). Fold the right side of the packer over the first side (Fig. 7). Fold or roll the work surface to the edges of the packer.

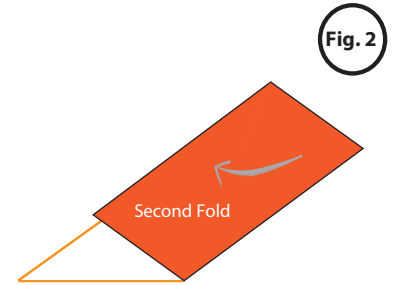


Fig. 2

9) Loading the Packer: Secure the packer using two "double" ties (one on each end of the folded packer about 18" from either end.) Using three additional sets of the doubled nylon ties, secure the wetted patch to the packer by attaching one set of ties around the center of the patch and packer with the remaining two sets of ties secured on each end of the patch (Fig. 8). Pull/carry the packer and patch to the position of the point of repair as marked on the air hose/pull cables.

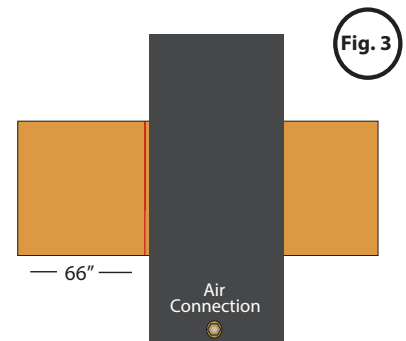


Fig. 3

10) Inflating the Packer: Begin inflation process by using the Fast-Inflate Control Box with the controls adusted to the 'Fast Fill' setting. The nylon cable ties will release as inflation progresses. Observe the system while inflating using an inline sewer camera. Once packer inflates sufficiently (makes contact with inner walls of pipe) so the patch is no longer visible, adjust contol box setting to 'Regulate.' Continue inflating the packer to 8-10 psi and maintain.

NOTE: If the pipe is badly damaged then care must be taken when inflating the packer to avoid further damage to the pipe and possible packer failure. Full pressure may not be needed. Consult with Source One Environmental for any questions.

11) Removing the Packer: Leave the packer in place under maintained pressure allowing the patch to cure for about 3 hours (consult Cure Chart on PipePatch carton.) Depressurize the packer using the 'Vacuum' setting of the Fast-Inflate Control Box. Remove the pillow packer using the attached pull cable(s). Inspect the point of the repair with the sewer camera.

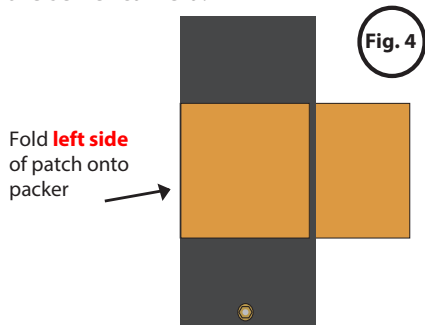


Fig. 4

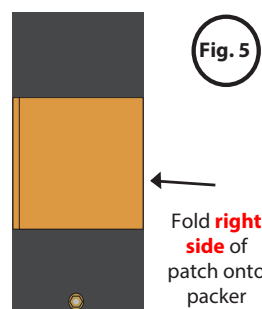


Fig. 5

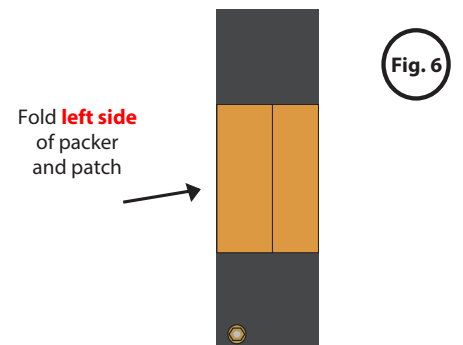


Fig. 6

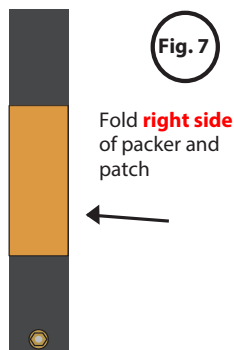


Fig. 7

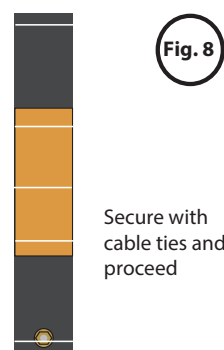


Fig. 8



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