

3" through 8" PipePatch Xtend System



KIT CONTENTS

- Fiberglass Tube
- Gloves
- Cable Ties / Wire Ties
- Tape
- Work Surface
- Protective Sleeve
- Resin
- Spatula

EQUIPMENT CHECK LIST

- Packer
- Regulator Assembly
- Wire Cutters
- Sewer Cleaner
- Sewer Camera
- Air compressor
- Air Hose
- Tape Measure
- Push Rods
- Flex Adapter
- Pull Cable(s)

INSTALLATION INSTRUCTIONS - *Read ALL Instructions Before Beginning!*

• Inspection and Preparation

- o Inspect the damaged area with a sewer camera
- o Clean the pipe to remove roots, debris, and sharp objects
- o Inspect a second time to verify that pipe is clean

• Test your equipment:

- o When practical, inflate the packer inside the same size as the pipe being repaired
- o Note the reading on the gauge
- o Add 2 PSI to this reading, this will be the pack pressure you will need during installation
- o Do not exceed the maximum pressure stated on the packer

• Measure:

- o Position the camera head at the center of the damaged area
- o Mark the camera cable with tape to serve as the distance to the repair

• Prepare the Packer:

- o Slide the protective sleeve over the packer, center the packer in the sleeve; 1 flap on top and one flap under packer (**Fig. 1**)
- o When pulling packer into place, connect pull cables to both the nose and tail
- o Securely tape the sleeve to both ends of the packer. Cut vent holes in sleeve (**Fig. 2**)
- o Assemble the packer, flex adapters, and push rods - tape all connections (**Fig. 2**)
- o Alternatively, when pulling in place connect pull cable to nose of packer
- o Position the camera head at the center of the packer and transfer the measurement with tape from the camera cable to the push rods or pull cable

• Perform a Dry Run:

- o Insert the assembly into the sewer at the point to be repaired; this will ensure you can reach the damaged area. **DO NOT INFLATE!**
- o Pull the packer out of the pipe using the pull cable
- o Inspect the sleeve for damage, this will be an indicator of any sharp points within the pipe

• Replace the Protective Sleeve:

- o Remove the protective sleeve from the test run
- o Install the new sleeve as described above

• Connect the airline

- o Connect the airline to the push rod, flex adapter, packer assembly and verify all connections are securely taped. For pull in place installs, connect airline to flex adapter

Fig. 1

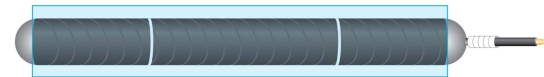


Fig. 2



Fig. 3

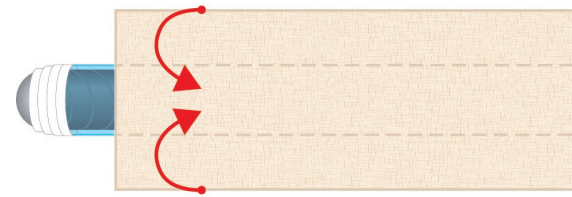
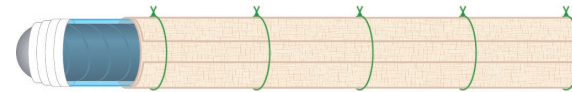


Fig. 4



- **Prepare the Patch:**

- Layout the work surface, unfold the fiberglass tube and position it on the work surface
- Thoroughly mix all resin simultaneously (**Note Start Time**)
- Evenly spread approximately 1/2 of the mixed resin on the exposed side of the fiberglass tube
- Flip the fiberglass tube to expose the other side
- Using the remainder of the resin, saturate the second side of the fiberglass tube
Note: The patch should be thoroughly saturated, remove puddled resin

- **Load the Patch on the Packer:**

- Center the packer within the fiberglass tube, fold up the excess flaps and secure with green wire ties (**Note: When securing, begin at midpoint of patch, working way out towards ends. This will help force out any extra air. There should be about 12-18" between each tie.**) (Fig. 3 & 4)
- When installing the 6" patch on the 4-6 packer, use the wire ties
- When installing 8" and larger patches, use cable ties
- Cut off all "tails" before inserting the assembly into the pipe

- **Inflate the Packer - NOTE: DO NOT EXCEED PRESSURE STATED ON PACKER**

- Insert the packer into the pipe, using the tape mark from the previously determined measurement.
- Using the regulator, inflate the packer to the pressure previously determined.
- The ties will release as the packer inflates, allowing the mat to be pressed against the inner surface of the pipe
- Refer to the cure chart on the carton for the estimated cure time
- Note: If the pipe is damaged, care must be taken during inflation to avoid further damage to the pipe or packer

- **Remove the Packer:**

- Leave the packer in place under maintained pressure allowing the patch to cure for the time indicated on the cure chart
- Deflate the packer and remove with the pull cable
- Inspect the repair with the sewer camera

IMPORTANT NOTICE

- Installer must examine and determine whether the pipe is structurally sound for this product. 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.

Source 1 (Contract #MIS5484006) 1-800-255-3924



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