Novocoat™ R7000 Quick Repair
Application Guide

Make emergency repairs to leaking 1/2- to 5-inch diameter metal pipes rated up to 400 psi. Consult ErgonArmor for instructions repairing larger diameter or plastic pipes.

PRODUCT SELECTION GUIDE

The following table provides suggestions for minimum repair widths of a leak area. Actual applications should approximate these widths to the nearest ½-inch. Novocoat R7000 Quick Repair is offered in three sizes:

Small Kit – 2″ x 4′, Medium Kit – 2″ x 12′, Large Kit – 4″ x 12′

Find the diameter and pressure of the leaking pipe to determine the minimum repair width, number and size of kits to apply.

Nominal Pipe Outer Diameter (O.D.)	Minimum Repair Width	50 PSI (10 Plies)	150 PSI (15 Plies)	400 PSI (20+ Plies)
1/2″	2″	1 small kit	1 small kit	1 small kit
3/4″	2″	1 small kit	1 small kit	1 small kit
1″	2″	1 small kit	1 small kit	1 medium kit
1-1/4″	2″	1 small kit	2 small kits	1 medium kit
1-1/2″	2″	1 small kit	2 small kits	1 medium kit
2″	2.1″	2 small kits	1 medium kit	1 medium kit
2-1/2″	2.6″	1 medium kit	1 large kit	2 large kits
3″	2.9″	1 medium kit	1 large kit	2 large kits
3-1/2″	3.2″	2 medium kits	2 large kits	2 large kits
4″	3.5″	2 medium kits	2 large kits	2 large kits
5″	4.1″	2 large kits	2 large kits	3 large kits

For pipe diameters over 5″ contact ErgonArmor for further instructions.

Each Kit Includes:
- Gloves
- 1 roll resin-saturated tape in foil pouch
- 2-part putty in plastic bag
- 1-quart container with lid
- Application guide

Additional Materials Required:
- Water
- 80-grit sandpaper, coarse file, rasp, or grinder
- Solvent
- Water-based degreaser

Tips for Multiple Rolls and Large Diameter Pipe

- Fully prepare the pipe surface before opening the first foil pouch.
- Determine the number of kits required before beginning. Contact ErgonArmor for assistance if needed.
- Preparedness is the key to a successful installation. Ensure all materials needed are present before beginning.
- When the Product Selection Guide dictates multiple rolls, it is important to apply the rolls in succession one immediately after another. Apply the first roll as per direction but DO NOT POLISH. Immediately apply the second and subsequent rolls directly on top of the previous roll.
- When the Product Selection Guide indicates a repair width greater than the tape width (2″ or 4″), the product should be applied by spiraling the tape to achieve the desired width. Apply multiple rolls as described above.
- For large diameter pipes or longer lengths requiring multiple rolls, up to four installers may be required. Two installers one on each side of the pipe to wrap, one installer for prepping rolls and another to wet out the repair.
- Spray large repair areas with a water spray bottle while applying Novocoat R7000 Quick Repair to keep it wet.
- Resin pouches may be chilled to 50°F (10°C) before opening to increase working time.

Phone: 601-933-3595
Email: ErgonArmorCustServ@ergon.com
Web: www.ergonarmor.com

Installation Video

ACTIVE LEAK – IF PIPE IS PRESSURIZED AND/OR CONTAINS LIQUID

PRE-WORK

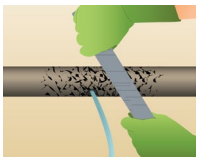
Keep foil pouches of tape sealed until the leaking pipe has been prepared and all required materials have been staged in accordance with these instructions.

Note the diameter and operating pressure of the leaking pipe. Refer to the product selection guide to identify the size and number of rolls of tape (kits) needed to repair the pipe.

Note the minimum repair width. This is the length of the section of pipe, centered over the leak, that will need to be prepared and covered with wrap.

SURFACE PREPARATION

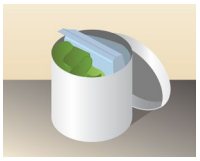
Prepare the full circumference of the pipe surface so the prepared pipe section is centered over the leak and equal to the minimum repair width as follows:



- Clean the prepared area with a suitable solvent and/or water-based degreaser.
- Abrade surface to remove loose scale or coatings and produce a bright metal finish.
- Remove dust and debris.

APPLICATION INSTRUCTIONS

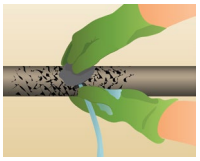
1. Remove contents from kit. Fill empty quart container with water. Put on gloves. Remove 2-part putty plug from plastic bag. Peel off protective wrap from epoxy putty.



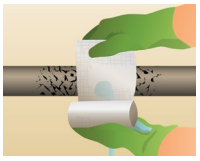
2. Knead epoxy putty plug by pulling it apart and recombining it until it is a uniform dark gray color. Roll the epoxy putty into a ball and set aside.

3. Tear open the foil pouch containing the resin-saturated tape. Remove the roll of tape and immediately immerse it in water for 5 seconds while firmly squeezing the roll at least 3 times. Remove it from the water and unroll approximately 4" to 6" of tape.

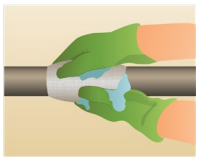
4. Place the mixed two-part epoxy putty on an area of the leak site near the leaking hole, positioning it so that it will firmly roll into leak when being wrapped with the tape.



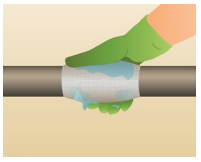
5. Work quickly to tightly wrap the tape around the affected area, ensuring that the epoxy putty is firmly compressed into the leak site while wrapping. Do not allow the putty to rotate off the leak area. Work quickly! Working time is only 3 to 5 minutes.



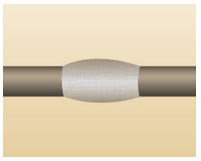
6. Wrap the tape evenly around the repair, building it up on top of itself. If the minimum repair width is larger than the tape width, wrap the tape in a spiral pattern to cover it. Apply the entire roll. If additional rolls are required, start applying the next roll over the end of the previous roll while the foam is still expanding. See "Tips for Multiple Rolls and Large Diameter Pipe."



7. Wet gloves in water and immediately compress the wet, expanding resins of the tape back into the wrap by rapidly, firmly, and quickly stroking the surface in the same direction in which the wrap was wound around the pipe. Wet gloves frequently to avoid sticking.



8. Continue polishing the wrap until all bubbling has stopped, around 3 to 5 minutes. The wrap should have a smooth, hard cap and an ivory-like appearance. Allow wrap at least 30 minutes to cure before pressurizing, preferably 2 hours if possible.



INACTIVE LEAK – IF PIPE DOES NOT CONTAIN PRESSURIZED LIQUID

PRE-WORK

Keep foil pouches of tape sealed until the leaking pipe has been prepared and all required materials have been staged in accordance with these instructions.

Note the diameter and operating pressure of the leaking pipe. Refer to the product selection guide to identify the size and number of rolls of tape (kits) needed to repair the pipe.

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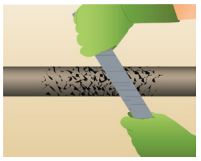

- Clean the prepared area with a suitable solvent and/or water-based degreaser.
- Abrade surface to remove loose scale or coatings and produce a bright metal finish.
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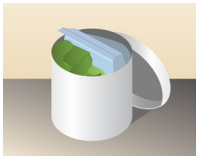
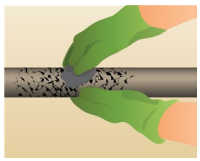


2. Knead epoxy putty plug by pulling it apart and recombining it until it is a uniform dark gray color.

3. Apply mixed putty directly to the damaged area, filling in holes and cracks.



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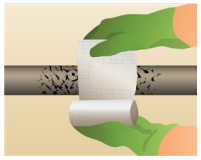

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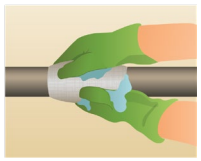

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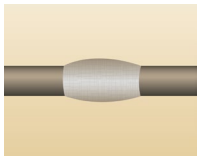

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