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# F.U.R.S. Rapid Pipe Repair

## Application Guideline:

The F.U.R.S. Rapid Repair product is a fiberglass cloth impregnated with water-activated polyurethane resin that bonds to the pipe and hardens within minutes to seal cracks, leaks and punctured areas.

1. When leak location has been identified, remove pressure from pipe to be repaired. *(if pressure cannot be removed, do not attempt a repair when area is unsafe or pressure is greater than 60psi.)*
2. At the area of the leak, prepare the pipe by using a file to create a rough surface on metal piping. A coarse sandpaper may be a sufficient means to roughen the substrate of many types of pipe. Surface prep should be performed on the entire circumference of pipe extending over the repair area.
3. Clean pipe at area of application of all lose rust, dirt, debris or foreign matter.
4. Put on gloves provided in kit, if one has not already done this step.
5. Remove epoxy stick from packaging and knead together for approximately 2 minutes till product is a consistent gray color.
6. With surface preparations complete, open sealed pouch containing wrap and dip F.U.R.S. composite wrap in water for 5-12 seconds. Gently squeeze out excess water. Place epoxy near end of FURS Wrap so that when wrapping it will align with void/defect on pipe. Pressure of wrapping shall be used to push filler epoxy in void. (The curing process will start as soon as product is removed from sealed pouch. Working time will be minutes.)
7. Quickly apply wrap tightly over the area to be repaired. Wrap with firm tension. Multiple F.U.R.S. wraps (rolls) may be used. (8 layers min. for repairs)
8. Concentrate wrapping at area of leak.
9. Immediately after wrapping is competed, with wet gloves, rub curing wrap to work/ smooth resin back into composite fabric as it firms. (a compression film can be used, if used, perforate film)
10. Heat from the wrap will often be felt during curing process.
11. Full cure after 30 minutes.

Wrap with a Minimum of **8 layers** for all repairs.
Repair success can be dependent on size of defect and internal pressure of pipe.

| | | |
|---|---|---|
| Dry fabric weight (oz/sq yd) | | 11.7 oz |
| Service temperature | | Not to exceed 300°F |
| Shelf life | | 2 yrs. from manufacturing date on packaging |
| Working time @ 70°F | | 3-7 min. (temp. dependent) |
| Curing time | | Full cure ≤ 30 min. @ 70°F |
| UV Stable | | Yes |
| Resin type | | Moisture Cured Urethane |
| Color | | Black |
| Recommended for pressures up to 400 psi | | |

Chemical Resistance ASTM D 543, Test period 2 months at 73°F (23°C)

| Solution Tested | Product Result |
|---|---|
| Sulfuric Acid 50% | No Change |
| Hydrochloric Acid 50% | No Change |
| Sodium Hydroxide Solution 20% | No Change |
| Gasoline | No Change |
| Toluene | No Change |
| Xylene | No Change |
| Mineral Spirits | No Change |
| Distilled Water | No Change |

**Handling & Storage:**

- Store product in a cool dry place in original packaging. Do not store in humid environment or at temperatures below 0°C
- Avoid Excessive heat and do not allow product to freeze.
- Shelf-life: Two (2) years from Date of Manufacture when stored in accordance with manufacturer's Instructions.

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**FURS Rapid Repair Kits** are engineered for leaks up to 400 psi and shall always be applied with a **minimum of 8 layers**. Multiple rolls may be used.

| **Kit Sizes:** | **Max. Pipe OD / roll** |
|---|---|
| **2" x 5'** | **2"** |
| **2" x 15'** | **6"** |
| **4" x 15'** | **6"** |
| **4" x 30'** | **14"** |
| **6" x 30'** | **14"** |

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