

# Beyond Wet Lay-up FRP

## New Product Restores Columns & Piles in 2 hours!



The patent-pending PileMedic™ is constructed with multiple layers of carbon and glass FRP pressed together to form a solid flexible laminate that is 3-4 times stronger than steel. The laminate is wrapped around the corroded column or deteriorated pile to create a seamless shell that can be filled with high-strength grout or resin.

### Columns



a. Corrosion-damage   b. Apply epoxy to PileMedic™   c. Wrap PileMedic™ around column or pile to create a cylindrical shell  
d. Temporarily support shell w/ ratchet straps   e. Fill annular space with grout   f. Remove ratchet straps & paint jacket (if desired)

### Underwater Piles



#### Advantages

- 3-4 times stronger than steel
- Increases axial capacity beyond original strength of column
- No weak seams along height
- Provides structural confinement
- No costly divers for underwater repair
- Does not corrode
- No metallic parts
- Grout can be pressurized
- Available in carbon or glass
- One size fits all piles or columns (no delays for customized jackets)



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# Restoration of Corrosion-Damaged Columns Using PileMedic™

A Patent-Pending Technology Developed by **QuakeWrap, Inc.**

- These columns support existing transmission lines in an operating substation, and replacement or traditional repair was impossible without a temporary shutdown of the substation and disruption to the local grid.
- The rehabilitation of 31 columns was completed in 5 working days, with the lines and towers continuing to operate normally throughout the period of repair, and with no need for electrical shutdowns, switch-overs, or other interruptions to normal service and operations of the substation.
- The axial capacity of the columns was increased from approximately 189 tons to 671 tons!



Corrosion-damaged column



Cut an opening at 30-inch above grade



Fill the inside of the column with grout



Cut a piece of PileMedic™, apply epoxy & wrap ...



... around the column to create a 36-inch high shell



Use ratchet straps to support shell temporarily



Insert drain pipe (if required)



Fill the annular space with grout & vibrate



Remove ratchet straps & paint jacket (if desired)



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