

RAPID PILE REPAIR KIT



Compatible with Current Military Engineering Capabilities



DESCRIPTION

PileMedic® is a **high-strength Fiber Reinforced Polymer laminate** constructed with bidirectional glass fabrics providing strength in both longitudinal and transverse directions.

The laminate is wrapped around the column or pile and the overlapping portions are bonded together using QuakeBond 220UR (Underwater Resin). The annular space between the laminate and the host pile is filled with a non-shrink grout.



Laminate gets Wrapped around Pile

USED FOR REPAIR AND STRENGTHENING OF:

- ▼ UNDERWATER PILES
- ▼ BRIDGE PIERS
- ▼ COLUMNS
- ▼ POLES

APPLICABLE TO ALL MATERIALS:

- ▼ CONCRETE
- ▼ TIMBER
- ▼ STEEL



Diver Secures Laminate with Zip Ties

ADVANTAGES

- One Size Fits All** - A roll of laminate can be cut in the field to fit any shape or size pile.
- Axial and Flexural Strength** - PileMedic® laminates are reinforcing sheets, like steel plates. They have the equivalent strength of a #4 rebar spaced every 2.5 inches.
- Confinement Pressure**—No bolted or glued seams that become the weak point under loading.
- Long Lifespan**—Made of composite materials that will not corrode.
- Ease of Installation** - Minimal training and equipment needed for rapid installations.
- Full Restoration of Pile Capacity** - Full capacity is reached within 24 hours.

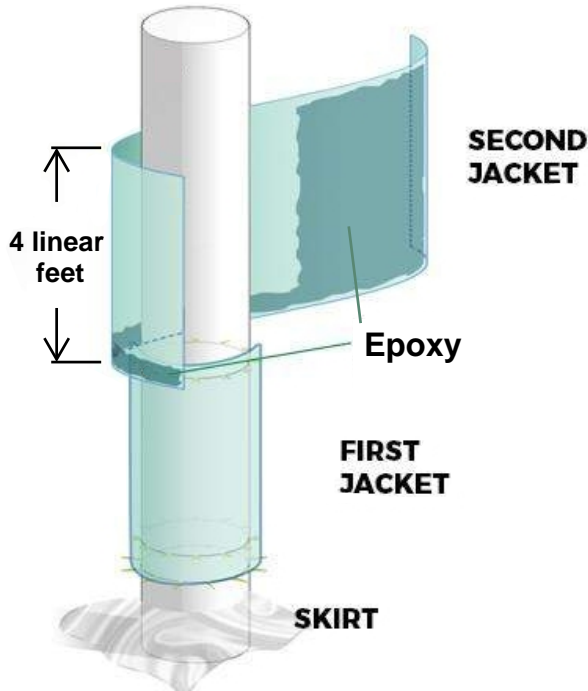
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A five man crew can repair 40 Linear Feet of pile in 8 hours! - Independent Assessor

- 1) **Clean Pile**—use water blasting or scraper
- 2) **Install Spacers and Skirt on Pile**—type and number explained in kit manual
- 3) **Measure, Cut & Coat Jacket**—jacket gets a thin layer of epoxy
- 4) **Wrap and Strap Jacket in Place**—zip ties hold jacket while epoxy cures
- 5) **Fill Annular Space**—set grout plug and fill the inside of jacket.



1 Pile Repair Kit -

58" X 42" X 45" and 1700lbs

One kit repairs 200 linear feet of pile
(based off a 25 inch diameter pile, grout not included)

PileMedic® Laminates - 3000sqft
Epoxy & Static Mixers - 130 cartridges
Underwater Grout Additive - good for 1yd³ of grout
Foam & Skirts

PileMedic Spacers - 1275 pcs
Zip Ties, Nitrile Gloves & Putty
Knives

2 Tool Kit -

Electric drills
Heavy Duty Shrink Wrap
1/2" drill bit kit
Pneumatic cartridge gun
Manual Cartridge gun
Pneumatic drills

Pneumatic Oil
Magnetic drill bits
Zip Tie Tensioner
Measuring tape
Mixing paddle
Measuring Cups

Mechanic Gloves
Measuring Cups
Nylon rope
Gloves
Shears
String



Click here for more product information and testing done by the U.S. Army Corps of Engineers

Click here to see the installation steps video

Contact PILEMEDIC at (520) 791-7000 or visit us at www.pilemedic.com