

## KLO-WRAP FRP Tape Jacket



**KLO-WRAP** is a water-activated polyurethane resin impregnated fiberglass wrap designed to protect piles with cathodic protection for reinforced concrete piles. It is economical, fast, and easy to install with a cathodic protection system for piles.

The advanced moisture cured polyurethane resins used offers strong adhesion to substrates, applicable on wet and dry surfaces. This glass fiber composite system offers excellent strength and adhesion. It can also be used as a strong and durable outer wrapping materials.

### Features

- No premixing required
- Economical
- Fast and easy to use
- Works under salt or fresh water, wet or dry surface

### Properties

- Color: White, Black, Green, Purple, Pink, Blue, Red, Orange, Yellow, Gray
- Heat resistant up to 300°C
- Application Temperature: 10~40°C
- Working Time: 5 Minutes at 24°C, 100% Cure time 24 hours
- Curing Method: Water activated.
- VOCs: None
- Shelf Life: 3 Years (Store at dry and cool place, 15~30 °C )

## Physical Properties

Property	Value	Test Method
Tensile Strength	34,800 psi (2,400 bar)	ASTM D 3039
Tensile Modulus	1.14 x 10 <sup>6</sup> psi (78,600 bar)	ASTM D3039
Young's Modulus	8.4 x 10 <sup>5</sup> psi (57,916 bar)	ASTM D3040
Flexural Strength	31,040 psi (2,140 bar)	ASTM D790
Flexural Modulus	7.5 x 10 <sup>7</sup> psi (5,171,050 bar)	ASTM D791
Impact Strength (Charpy)	135 kJ/m <sup>2</sup>	KSM ISO179-1
Compression Strength	19,300 psi (1,330 bar)	ASTM D695-77
Coefficient of Thermal Expansion	7.1 x 10 <sup>-5</sup> /°C	ASTM E831
Flash Point	> 100°C	
Heat Resistance	> 319°C	
Shore Hardness (Durometer D)	73	ASTM D2583
Lap Shear Strength	650 psi (44.8 bar)	ASTM D5379

## Electrical Properties

Property	Value	Standard Method
Volume Resistivity	1 .08 X10 <sup>15</sup> Q.m	ASTM D257
Dielectric Strength	15,000 volts	ASTM D149

## Application

1. Open the foil pouch and submerge into water for 10~15 seconds
2. Start wrapping fiberglass on the pile while spraying water for each layer.
3. Ensure a minimum of 50% overlap between rolls
4. Press and rub the surface smooth before the wrap sets.

Note: Do not open the foil pouch before the KLO-Wrap is ready to be applied.