

High Strength Repair Wrap (Technical Data Sheet)

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Introduction

Unique-technology High Strength Repair Wrap is made of high density fabric and coated with water-activated polyurethane resin. Quick and simple to use with no mixing or measuring required. A successful pipe repair can be achieved in only 30 minutes. It uses environmental friendly materials, and mainly used for Repair Oil , Gas & Water Pipeline etc, and adheres to Metal, plaster, PVC, Copper, Rubber, Fiberglass, Concrete, Wood, Ceramic, Polyester, etc. It can be applied on cracked, fractured, corroded, damaged & leaking pipes, can also be used around different shapes including straight lengths, tee and elbow joints. It is suitable for using on wet or dry pipes. It can even be applied underwater, in fresh or saltwater.

Specifications (The length can be produced as required)

UT002	5cm×360cm (2" X 12ft)	UT00	7.5cm×360cm(3" X 12ft)	UT004	10cm×360cm(4" X 12ft)
UT005	12.5cm×360cm(5" X 12ft)	UT00	15cm×360cm(6" X 12ft)		

High Strength Repair Wrap Technical Data

Color:	Black / White / Yellow / Red / Blue
Application Method:	Wet Lay-up
Operation time:	3~10 minuets (depend on operation temperature)
Cured time:	around 30 minuets after direct exposure to water
Heat Resistance:	0 °C ~ 150 °C
Hardness, Shore D:	70
Thickness:	Single Ply: 30mm ± 0.5mm (10 Mils ± 2 Mils)
Warp / Weft Density:	12 roots/cm
Fabric Weight:	420 g/m 2
Resin Content:	45% ± 3%
UV Resistance:	UV inhibitors added
Insulation:	Yes
Toxicity:	Non-Toxic. Non-Hazardous.
Shelf Life:	3 years from production date

Mechanical Peoperties

Elasticity modulus:	215,000psi (pound/per square inch)
Tensile strength:	6575psi (pound/per square inch)
Pressure Withstand:	2900psi(Min wrapping 15 layers, around damage area)
Chemical Resistance:	Most Dilute Acids, Brine, Oils, Toulene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oils, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel Caustic Soda 50%.

Direction for Use

- ◆ Clean and roughen the damaged area with the metal file or wire brush, which will help resulting a more succesful repair.
- ◆ Put gloves on, open the bag and immerse the bandage in temperate water for 10-15 seconds & squeeze the wrap to let the water soak in evenly.
- ◆ Squeeze out the access water, apply the wrap spirally around the damaged pipe area. Extending up to 50mm(2")either side of the leaked area.
- ◆ When wrapping, put each layer tightly and firmly, using hand to mould and squeeze the layers together in a tightening motion. Continue to apply pressure during application and upon completion.
- ◆ Suggestion: To achieve the best result, the wrap should be more than 10mm thick (10-15 layers). Allow 30 minutes for wrap to set rock-hard.

Storage

High Strength Repair Wrap should be stored unopened in the foil packaging in cool, dry conditions. Under this conditions it will have a shelf life of 3 years. Any harden due to the broken during shipment. Our factory can reimburse freely.

Health & Satety During Use

High Strength Repair Wrap contains a urethane pre-polymer, which is not classified as hazardous. But gloves should be worn to avoid unnecessary skin contact with the uncured material. For furthaer health and safety information, please refer to the related Safety Data Sheet.