

# THISTLEWRAP PIPE REPAIR TAPE

## ThistleBond

A Division of E. Wood Ltd., U.K.



'ThistleWrap Pipe Repair Tape' is a high performance rapid curing moisture activated repair bandage specifically developed for repair of leaking pipes. 'ThistleWrap Pipe Repair Tape' is specially selected woven polyester fabric impregnated with a polyurethane resin, which is activated by immersion in water. It bonds effectively to many substrates. 'ThistleWrap Pipe Repair Tape' is ideal for pipe repairs to low-medium pressure systems. For high pressure systems, a method in combination with 'PlasSteel' can be adopted for successful arresting the leaks.

Pipes upto a nominal diameter of 65mm may be repaired by using this repair tape with holes approximately 3 mm to 6 mm, although slightly larger pipes and holes can be effectively repaired using a plug of 'PlasSteel' as described below. Apart from good mechanical properties, 'ThistleWrap Pipe Repair Tape' has an excellent resistance to many corrosive chemicals which ensures a full proof repair in any working condition.

## SURFACE PREPARATION & APPLICATION PROCEDURE

Prepare surface area by wire brushing loose rust, paint, mud or dirt etc. If surface is smooth, abrade with coarse emery cloth or similar. Remove 'ThistleWrap Pipe Repair Tape' from foil bag and immerse in water (fresh) for approx 10-20 seconds, squeeze the roll two or three times to remove entrapped air from tape. Remove roll from water and wrap quickly and tightly as follows : Center tape over leak site, wrap from bottom of roll, putting firmly throughout application. After several windings of tape, which should extend 1.5 to 2 pipe diameters each side of the hole, resin foam will come through the tape which is desirable and aided by pulling tightly. Tape should be wound on with a half width of tape overlap keeping it flat and even, maintaining tightness. Firmly press and smooth end of rolls into wrap in direction of application. Wet hand in water, smooth and firmly press wet resin back into the wrap. Keep hands moving quickly and wet hand frequently to avoid sticking. As repair cures it will warm up very slightly. Continue rapid hand movement pressing and polishing resin in motions around and parallel to tape. The repair now has a hard surface and enamel like appearance. For larger hole sizes use ThistleBond 'PlasSteel' for plugging then follow the above process.

## THISTLEWRAP PIPE REPAIR TAPE

### PHYSICAL PROPERTIES

Flexural Strength	32 N/mm <sup>2</sup>
ASTM D790	(4640 psi)
Tensile Strength	19 N/mm <sup>2</sup>
ASTM D6382	(2755 psi)
Hardness (Shore D)	82
ASTM D2240	
Adhesion (Bond Strength)	14 N/mm <sup>2</sup> (2000 psi)
Maximum Heat Resistance	150 °C
Maximum Service Pressure	27.5 bar (400 psi)
Dielectric Strength	16 kV/mm
ASTM D149	

### PHYSICAL CONSTANTS

Mixing Ratio	Supplied ready for use.
Appearance	Resin impregnated bandage.
Drying Time @ 20°C	
Usable Life	2-3 Minutes
Initial Set	5 Minutes
Full Mechanical Strength	30 Minutes
Volume Solids	100%
VOC	Nil
Temperature Resistance	150 °C
Shelf Life	12 months

### SUPPLY INFORMATION

Stock No	Pack Size
TRK19601	50 mm x 1.5 metres
TRK19603	50 mm x 3.6 metres
TRK19604	75 mm x 3.6 metres
TRK19605	100 mm x 3.6 metres

**Description** : ThistleWrap Pipe Repair Tape

\* for further information see Chemical Resistance Chart

### CHEMICAL RESISTANCE \*

Acetic Acid 0-10%	Good
Hydrochloric Acid 0-10%	Excellent
Nitric Acid 0-10%	Excellent
Phosphoric Acid 0-75%	Excellent
Sodium Chloride	Excellent
Crude / Diesel / Petrol	Excellent
Sulfuric Acid 0-10%	Excellent
Sea Water	Excellent

### RECOMMENDED APPLICATIONS

- Permanent repairs to holes / cracks in any pipe lines handling water / oil / chemicals from low-high pressures

### Distributor catering to your needs



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