



# **WILLIAM JOHNSTON**

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## **& COMPANY LIMITED**

**WRAS**  
APPROVED  
PRODUCT

## **Wrap Repair Tape**



**A quick and effective way to repair,  
encapsulate or strengthen Pipes & Hoses**

A product from  
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Wrap Repair Tape has been developed as a simple, user friendly method of repairing leaks and breaks in pipes, hoses and tubes. It can also be utilised for other applications like corrosion protection, encapsulation, insulation and strengthening.

## Kit Contents

- Water activated fibreglass tape
- Protective gloves
- Epoxy putty
- Instructions



Wrap Repair Tape ensures a strong, economical and long term fix to the problem of a leaking pipe.

It can be applied to **virtually any kind of pipe** and is an alternative to traditional methods such as cementing, sleeving, welding and even replacement. It is ideal for all kinds of fluid/gas bearing pipes & hoses and can even be used for asbestos containment.

**The applications are endless and it takes as little as 30 minutes to effect a repair.**

Wrap Repair Tape can be used in a wide range of applications and fields. It has the versatility to be used on sensitive repairs like **potable water** lines whilst at the same time having the strength to be used on petroleum and chemical applications. Repairs can be made both above and underground: the tape also works under water (fresh or saltwater). Even if the pipe to be repaired is wet or corroded, Wrap Repair Tape can be applied without problems.

Some of the applications include:

### Domestic

- Water Lines
- Refrigeration
- Drainage
- Toilets
- Appliances
- Heating Systems
- Air Conditioning
- Guttering
- Swimming Pools & Spas
- Electrical Conduit
- Garden Hoses

### Automotive

- Exhaust Systems
- Engine Hoses
- Oil Lines
- Heater & Air Conditioning
- Brake Lines
- Roof Racks

### Common Industrial

- Fire Sprinkler Systems
- Irrigation Lines
- Food & Beverage Factories
- Oil & Gas
- Offshore & Marine
- Pneumatic Systems
- Ducting
- Machinery
- Building Maintenance
- Water Treatment
- Chemical Plants
- Water Utilities
- Concrete Pipes
- Plumber & Heating Supplies



## Usage Instructions

1. Remove all pressure from the damaged section of pipe before attempting your repair.
2. Remove any oil, grease, loose rust scale, sealant tape, paint or hardware from the area to be repaired. (A wire brush or sandpaper is ideal)
3. Put on vinyl gloves (gloves go on best when hands are dry).
4. Remove the supplied putty from the kit. Twist/Cut/Break off enough putty to fill the repair area and overlap onto the piping.
5. Knead putty to uniform colour (consistently grey in colour, free from specs). Putty will begin to warm as consistency is achieved.
6. Apply the kneaded putty into the repair area tapering the putty onto the pipe. Putty should be in place before hardening occurs (usually 2 minutes). If making your repair while submerged in fluids, work the putty into the repair area and hold it in place until adhesion begins.
7. Open the foil pouch supplied in the kit. Remove the tape and place it in cold water or pour water into the foil pouch. To ensure that the water is distributed into all portions of the tape, squeeze the tape while submerged in water for 30 - 40 seconds.
8. Begin wrapping the tape on the opposite side of the break, keeping tension applied to the tape at all times. Continue to wrap the tape, moving back and forth along the pipe until the leaking area has tape applied 5cm on either side of the leak and at least 8 to 10 layers directly over the leak.
9. Once all the tape has been applied to the pipe, squeeze and tighten the tape, rotating your hand in the direction of the wrap. This ensures that all layers of the wrap will tighten.
10. As the resin begins to cure, swelling and bubbling will occur. This curing process will cause the tape to unwrap. You Must Continue Step 9 For Approximately 15 Minutes to Prevent Unwrapping. As curing is nearing completion, the tape will become very sticky and hold itself in place without unwrapping.
11. The repair will be fully cured in approximately 30 minutes. Curing time will be longer in dry climates or cold temperatures.
12. Any necessary cleanup can be done at this time using alcohol or acetone.
13. After final cure, repaired area can be sanded and painted if desired.

Caution: Use enclosed protective gloves. Avoid contact with eyes, skin or clothing. May cause skin irritation. In case of contact with eyes, flush immediately with water and get medical attention. Keep out of reach of children.



1. Pipe Leaking



2. Apply Wrap Repair



3. Job Finished!

## Technical Specifications

Wrap Repair Tapes are available in a range of standard sizes as follows:

Wrap Tape Width	Wrap Tape Length	Maximum Pipe Diameter which can be Repaired
50mm	1.5 metres	Up to 38mm (1.5")
76mm	2.75 metres	Up to 63,5mm (2.5")
100mm	4.5 metres	Up to 127mm (5")
150mm	7.7 metres	Up to 304mm (12")
150mm	13.5 metres	Up to 508mm (20")
200mm	13.5 metres	Up to 508mm (20")

The material safety data sheets for this product are available upon request. The kits are WRAS approved and therefore acceptable for potable drinking water.

The kits are available for pipe diameters from 6,35mm (1/4") to 508mm (20"). Product guide below shows correct kit for high pressure repairs (up to 20 Bar). This requires at least 8 wraps around the circumference of the pipe. For 'non-pressure' repairs like drains/guttering etc., 4 wraps are sufficient.

◇ - High Pressure repairs

△ - Non pressure repairs

Pipe Diameter(mm)	Kit AWT-5-150	Kit AWT-7.5-275	Kit AWT-10-450	Kit AWT-15-770	Kit AWT-15-1370	Kit AWT-20-1370
25.4 (1")	◇	◇				
38.1(1.5")	◇	◇				
50.8 (2")	◇	◇	◇			
63.5 (2.5")	△	◇	◇			
76 (3")	△	◇	◇			
101 (4")	△	◇	◇			
127 (5")		△	◇	◇		
152 (6")		△	△	◇		
219 (8")			△	◇	◇	◇
254 (10")			△	△	◇	◇
304 (12")			△	△	◇	◇
406 (16")				△	◇	◇
508 (20")				△	◇	◇

## Technical Information

Basic form	Impregnated fiberglass tape
Colour	Grey
Number of wraps required	8 for high pressure repairs (up to 20 Bar)
Cure time	Between 30-45 mins* @20°C
Hardness (cured laminate)	53 barcol
Heat resistance	640°C
Dielectric strength	16,969
Shelf life (wrap tape)	Unlimited when stored correctly
Shelf life (epoxy putty)	3 years
<b>Mechanical Resistance</b>	
Flexural Strength	111006 KPa
Tensile Strength	165474 MPa
Compression Strength	183401 MPa
Testing criteria - 4 layers cycled across temperature range of 10-33°C	

