

## PRODUCT DESCRIPTION

FIXAPIPE® Pipe Repair Kit is the ultimate cost-effective industrial strength solution, for the temporary repair of damaged/leaking pipes. FIXAPIPE® Pipe Repair Kit is a fast, easy to use, water-activated polyurethane impregnated fibreglass bandage to assist in the temporary repair of damaged, leaking, cracked, broken or corroded pipes during unscheduled maintenance downtime.

FIXAPIPE® delivers superior adhesion and can be used on a variety of pipes including; metal, concrete, galvanised, ceramic, fibreglass, polypropylene, steel, rubber, stainless steel and copper. FIXAPIPE® Pipe Repair Kit can be used on wet, dry, clean, broken, corroded and leaking pipes; FIXAPIPE® bandage will even set under water. The internal spool on FIXAPIPE® bandage makes it easier to apply around difficult shapes including straight lengths, tee and elbow joints, couplings and clamps and reduces roll wastage.

The Industrial FIXAPIPE® Pipe Repair Kit includes 54g of FIXAPIPE® Steel Putty. FIXAPIPE® Steel Putty is hand-mixable, non-rusting, steel-reinforced epoxy putty that can moulded into any shape to fill voids, cracks or holes to form an industrial strength polymer compound. As each stick contains a pre-measured portion of activator and base throughout – no measuring or mixing tools are required.

## PERFORMANCE DATA

### FIXAPIPE® Bandage

Flexural Strength (E Modulus)	ASTM D790 3000 psi (207 bar)
Tensile Strength	ASTM D638 3,200 psi (220.6 bar)
Dielectric Breakdown Voltage	ASTM D149 16,250 Volts

### TYPICAL PROPERTIES

Working Time	Approx. 3 minutes
Cure Time	Approx. 30 minutes

**50mm PVC pipe, 5 layers applied.**

### FIXAPIPE® Steel Putty

Shore D Hardness	80
Lap Shear Tensile Strength (On steel 1"x1" x 1/16")	900 lbs (6.2 MPa)
Compressive Strength	8,000 psi (55 MPa)
Density	2.2 gm/cm <sup>3</sup>
Shrinkage	<1%
Non-Volatile content	100%
Electrical Resistance	30,000 megohms
Dielectric Strength	300 volts/ mL

### Upper temperature limits

Continuous	121°C
Intermittent	149°C

### TYPICAL PROPERTIES

Working Time	3-5 minutes
Functional Cure	60 minutes

\*Cure time will be affected by the temperature of the application. Temperatures under 10°C will result in a substantially longer cure time. Temperatures over 25°C will result in a shorter cure time.

## PRESSURE TESTING

### FIXAPIPE® Pipe Repair Kit

Proof Pressure Test 300 psi (110mm PN16 BlueLine Poly Pipe c/w 5mm drilled hole)
Proof Pressure Test 1000 psi (19mm Class A Copper Pipe c/w 5mm drilled hole)

\*Pressure rating varies according to type of pipe and type of damage. For further information regarding additional performance testing on a other pipes, please refer to [www.fixapipe.com.au](http://www.fixapipe.com.au) or contact your local distributor.

### Applicable Standards

FIXAPIPE® Steel Putty Complies with AS/NZS 4020:2005 when exposed at area to volume ratios up to 5000mm<sup>2</sup>/L at 20°C +/- 2°C and is certified by NSF International to NSF/ ANSI Standard 61.

(Standards refer to use in contact with drinking water)

### Product Material Safety Data Sheet (MSDS)

MSDS can be downloaded at [www.fixapipe.com.au](http://www.fixapipe.com.au)

Product Code	Sizing
71978-45	FIXAPIPE 5cm x 3.6m
71978-46	FIXAPIPE 7.5cm x 3.6m
71978-47	FIXAPIPE 10cm x 3.6m
71978-48	FIXAPIPE 10cm x 4.9m

**Refer to product directions for use located on reverse of pouch for further information regarding application.**

**FIXAPIPE® PIPE REPAIR KIT IS NOT INTENDED FOR STRUCTURAL USE. NOT RECOMMENDED FOR TEMPERATURES OVER 150°C.**

**FIXAPIPE® Steel Putty** is highly resistant to corrosion or deterioration by dilute acids and caustics. It will withstand the influence of mildly acidic water.

## SOLVENTS

Normal temperature exposure to the following solvents has no effect or minor effect on cured epoxy steel putty:

- Alcohols (e.g. methyl, ethyl, isopropyl, butyl)
- Antifreeze
- Cellosolves
- Chlorinated solvents, saturated (limited)
- Ester (e.g. amyl acetate)
- Greases
- Lacquers and lacquer thinner
- Methylene chloride
- Mineral Spirits
- Naphtha
- Natural oils (e.g. linseed, olive, palm)
- Oils and fuels, including diesel oil, fuel oil, gasoline, jet fuel, lubricating oil and silicone oil
- Methylene chloride
- Mineral spirits
- Paint thinner
- Shellac
- Toluene
- Trichloroethane
- Turpentine
- Xylene

Hot temperatures or strongly concentrated exposure to the following solvents has a moderate or severe effect on cured epoxy steel putty: FIXAPIPE® Pipe Repair Kit is not recommended for use with the following solvents under these conditions:

- Acetone
- Ester (hot)
- Methylene ketone (MEK)

## CAUSTIC SUBSTANCES

Normal temperature exposure to the following caustics has no effect or minor effect on epoxy steel putty:

- Chlorine bleach (dilute)
- Caustic potash
- Hydrogen peroxide
- Salt solutions, including alum, calcium chloride and salt
- Soap and soap solutions

Hot or strongly concentrated exposure to the following caustics has a moderate or severe effect on cured epoxy steel putty: FIXAPIPE® Pipe Repair Kit is not recommended for use with the following caustics under these conditions:

- Bromine
- Caustic potash (hot)
- Chlorine
- Chromate solutions
- Hydrogen peroxide (hot)
- Hypochlorite bleach (concentrated or hot)
- Oxidizing agents
- Sodium peroxide
- Soap and soap solutions
- Oleum
- Plating solutions

## ACIDS

Normal temperature exposure to the following dilute acids has no effect or minor effect on cured epoxy steel putty:

- Acetic
- Muriatic
- Nitric

Hot temperatures or strongly concentrated exposure to the following caustics has a moderate or severe effect on cured epoxy steel putty: FIXAPIPE® Pipe Repair Kit is not recommended for use with the following acids under these conditions:

- Acetic
- Aqua regia
- Carbolic
- Muriatic
- Nitric
- Sulfuric

## MISCELLANEOUS

The following have no effect or minor effect on cured epoxy steel putty.

- Lard
- Water