



## Pipe Repair Bandages

Rapp-it is an instant emergency pipe repair system that is simple to use with no mixing or measuring required. Rapp-it bandages have a woven fibreglass substrate impregnated with a water-activated polyurethane resin.

Major industries such as the mining, industrial, marine and agricultural environments are specific markets and areas of use for Rapp-it products.

Rapp-it's ability to perform effectively in emergency situations greatly reduces costly downtime and production loss. Because of the product's ease of use, it can be applied by practically any apprentice applicator. Rapp-it Pipe Repair Bandages can produce a successful repair within 30 minutes, and so they should be made available to all maintenance staff within your industry.

### Application

Rapp-it is simple to use and requires very little preparation:

- Once the leaking area is identified, shut down relevant pipes or hoses immediately.
- Prepare the surface by cleaning and roughening the pipe.
- Put on enclosed latex gloves.
- Apply Rapp-it Steel Putty to the leak site and mould.
- Open foil pouch and immerse Rapp-it bandage in temperate fresh water for 10 seconds. The entire contents must be used once the package is opened.
- Apply Rapp-it around the damaged area extending up to 50mm either side of the leak to ensure complete coverage. It is important that the bandage is applied quickly as curing begins once it is taken out of the water.
- Whilst wrapping, pull each layer tightly by using your hand to mould and squeeze the layers together. Continue this action during and upon completion.

For best results, manufacturers recommend the completed application should be no less than 10mm in thickness. Please refer to the instructions for use on each bandage for a troubleshooting guide.

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Rapp-it Pipe Repair Bandages are available in four convenient sizes: 50mm x 3.6m (2" x 12'); 75mm x 3.6m (3" x 12'); 100mm x 3.6m (4" x 12'); and 100mm x 4.8m (4" x 16'). It is important you choose the correct size for your application. In some cases, multiple bandages may be required. Each package also contains a 50mm stick of Rapp-it Steel Putty, and a pair of gloves.

Rapp-it bonds to most pipe substrates, including copper, metal, PVC and polyurethane.

Rapp-it is resistant to most chemicals, including harsh solvents such as MEK, hydrochloric acid and gasoline. These chemicals do not cause any softening of the bandage. Its heat resistance is 150° Celsius; anything over this could cause toxic fumes.

Rapp-it has also been successfully used in petrochemical, general manufacturing, food and chemical processing and marine industries, from small fishing crafts to boiler and engine rooms within container shipping vessels.

A leaking pipe could threaten to shut down your entire operation, which could cost you thousands of dollars in downtime. It pays to cover yourself and your company by stocking Rapp-it Pipe Repair Bandages.

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# Specifications

## Pipe Repair Bandages

- Catalyst: Water
- Resin Makeup: Polyurethane
- Heat Resistance: 150°C
- Pressure: 360 PSI (2,500KPA)
- Bonds: Copper pipe, PVC, polypipe, metal, fibreglass
- Set Time: 20 – 30 minutes, sets under water
- Chemical resistance: Most diluted chemicals and fuels

## Steel Putty

- Heat Resistance: 120°C
- Hardness, Shore D (full cure, 24 hours): 75 - 85
- Set Time: 3 – 5 minutes
- Chemical resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, and dilute acids and bases.

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# Marketplaces

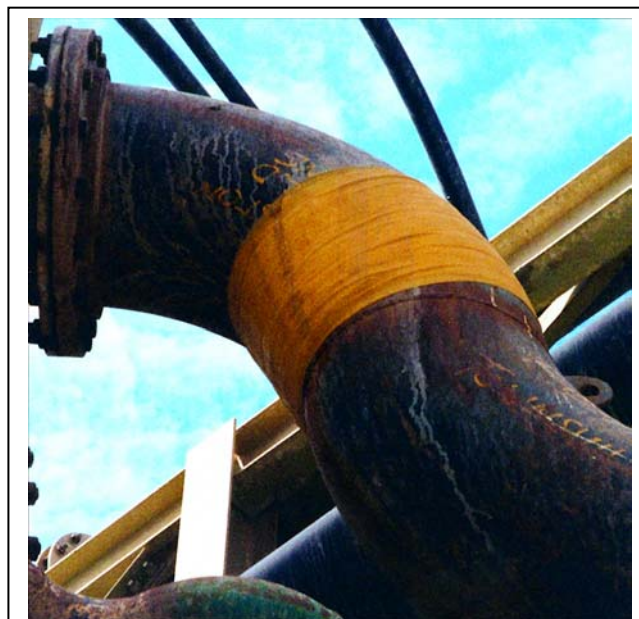
INDUSTRY	AREA OF USE	REASON FOR USE
<b>COAL MINES</b>	Coal preparation wash plants: water, steam, slurry, sludge lines etc.	Emergency, temporary repairs to leaking pipes
<b>STEEL SMELTER WORKS</b>	Processing: blast furnaces, water, steam, waste product pipes	Emergency repairs until shut-down
<b>STEEL SHEET &amp; COIL MANUFACTURING</b>	Processing: steam and water pipes	Emergency repairs to burst pipes
<b>PETROLEUM</b>	Oil, gas, water supply lines	Emergency repairs to fuel, oil and gas lines during 24hr shift
<b>COAL, COPPER &amp; ZINC SMELTING</b>	Processing: blast furnaces, water, steam, sludge, slurry lines	Emergency repairs
<b>GOLD MINES</b>	Processing plant: chemical, sludge, slurry, by-product/waste pipes	Emergency repairs to chemical supply lines
<b>BAUXITE MINES</b>	Processing plant: Refinery/Alumina section Smelter/Aluminum section	Emergency repairs to sludge and chemical lines
<b>SUGAR MILLS</b>	Corrosive fluid lines, abrasive product pipes, general low pressure, water and steam lines	Emergency repairs to corrosive, water, steam and abrasive lines
<b>ALUMINIUM</b>	Processing: boiler rooms, sludge, slurry, water, steam pipes	Emergency repairs to sludge and chemical lines
<b>POWER STATIONS</b>	Ash transfer systems, pulverized fuel tubes, cooling water lines	Emergency repairs to transfer systems and lines
<b>TIMBER MILLS</b>	Processing of wood paneling, ply and softwood	Emergency repairs to chemical and water lines

## ..Marketplaces (cont.)

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<b>INDUSTRY</b>	<b>AREA OF USE</b>	<b>REASON FOR USE</b>
<b>QUARRIES</b>	Wash plants: leaking pipes within rock, gravel, granite and greenstone quarries	Emergency repairs to leaking pipes
<b>MERCHANT SHIPPING</b>	Engine room	Emergency repairs while at sea to fuel, oil, water and waste lines. Damage control within engine room and fire fighting facilities
<b>MARINE (COAST GUARD)</b>	Engine room	Emergency repairs to fuel, water, oil lines etc.
<b>MARINE AND YACHT CHANDLERY</b>	General emergency repairs	Emergency repairs to pipes, punctured hulls, jury rigs etc.
<b>PAPER MANUFACTURING</b>	Pulp mill	Emergency repairs to chemical, water, waste lines
<b>MOTOR VEHICLE MANUFACTURING</b>	Production manufacturing plant	Emergency repairs to leaking water and steam pipes
<b>FOOD MANUFACTURING AND PROCESSING</b>	Processing plant	Emergency repairs during 24hr operations to chemical, food, waste, water lines
<b>AGRICULTURAL</b>	General repairs around farm	Emergency repairs to engines, equipment, irrigation lines etc.



Rapp-it bandages in use at Kidston gold mines.

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## Immersion Testing Results

50mm (2") bandages were rolled to five layers and submerged in the following chemicals for a period of one month. The changes, if any, are outlined below.

Ethyl Alcohol	- No visible change. No softening of bandage.
MEK	- Moderate discolouration. No softening of bandage.
Acetone	- No visible change. No softening of bandage.
Hydrochloric Acid 30%	- Severe discolouration (bandage turned deep yellow-green). No softening of bandage.
Sulfuric Acid 92%	- Severe discolouration. No softening of bandage.
Caustic Soda 50%	- Slight colour change. No softening of bandage.
Toluene	- No visible change. No softening of bandage.
Gasoline	- No visible change. No softening of bandage.
Diesel Fuel	- Slight colour change. No softening of bandage.

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