

Description

Quick-Wrap allows on the spot repairs to Metal, Plastic, Concrete or asbestos pipes, tubes, rods, stanchions etc.

Advanced water activated Polyurethane resin. Quick-Wrap sets in under 10 minutes and is water/fluid compatible. Knitted fibreglass composition. Quick-Wrap stretches around joints, fittings and elbows.

No mixing or measuring. Quick-Wrap is ready for use after soaking in water for just 10 seconds. No need for skilled labour. Quick-Wrap is safe and easy to use and is food safe when cured.

Quick-Wrap is especially formulated to make quick and effective repairs to cracks, leaks, fractures, casting and corrosion porosity in metal (ferrous and non ferrous) plastic, concrete and asbestos clad piping carrying Water, Oil, Steam and most gases and solvents. **Quick-Wrap** provides immediate repairs in emergency situations and cures in less than 10 minutes saving costly downtime. **Quick-Wrap** has good temperature, pressure and chemical resistance and is quick and easy to use. Ideal for Permanent repairs requiring maximum strength and security in the chemical, manufacturing, engineering, marine, agricultural, greenhouse and food processing industries. Other applications, using appropriate reinforcements or splints include rebuilding broom/tool handles, fishing rods, landing net poles and all manner of supports on furniture and equipment. **Quick Wrap** fulfills all the requirements of the water bylaws scheme approval (BS6920). Which tests the effects of the cured bandage in the presence of potable water. On it's own **Quick Wrap** is ideal for low pressure repairs, however used with an intermediate repair system Quick Wrap can be used for high pressure repairs. (Ask Vortex for more details).

How To Use:

1. Shut down pipes and hoses before repair. Clean and abrade lightly the area to be repaired.
2. To activate the bandage, soak in warm fresh or salt water for 10 seconds and squash in the hand whilst submerged. Curing begins immediately upon opening the package therefore it must be applied quickly to the repair area. The entire bandage must be used.

In all cases, try to achieve a minimum of 9 (nine) complete windings around the circumference of the pipe, even when used in conjunction with an intermediate repair system. If nine windings are not achievable use a second bandage to complete the repair.

Quick Wrap A (50mmx1.5mtr) - Designed for pipes up to 45mm diameter. Quick Wrap B (75mmx2.75mtr) - Designed for pipes up to 75mm diameter.

For damaged and cracked pipes Wrap the bandage very firmly around the damaged area extending 50mm beyond either side of the repair. Continue to apply pressure to the bandage by wetting the outside of the bandage and moulding in direction of the wrap until the bandage begins to set. **The bandage hardens in 10 minutes and is fully cured within 1 hour.**

For repairing leaks & blow holes Cut off 75mm of bandage and force into the hole to form a plug or use one of the Vortex intermediate repair systems. (Ask Vortex for more details). Wrap the bandage very firmly around the damaged area extending 50mm beyond either side of the repair. Continue to apply pressure to the bandage by wetting the outside of the bandage and moulding in direction of the wrap until the bandage begins to set. The bandage hardens in 10 minutes and is fully cured within 1 hour.

Characteristics

Resin

Hydrophilic Polyurethane - Rapid polymerisation.

Bandage

Aramid Fibre Knitted, not woven, to ease repairs on corner joints, elbows and other shaped fittings.

Tensile Strength

Fracture toughness test - 2051 Newtons peak stress.

Flexural Strength Resists 50 Newtons Force after only 15 minutes cure.

Dielectric Test

Maximum Voltage at breakdown: 16,000 volts +

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Temperature Cycling Test Oven cured @ 50°C for 1 hour elevated to 190°C for 1 hour. Results: No delimitation noted.

Temperature Rating 150°C (Anything over this could cause toxic fumes). The fibre glass has a melting point of 1200°C.

Cure Time

5-20 minutes (dependant upon atmospheric conditions & the activating water temperature) Optimum cure speed achieved at temperatures > 10°C where the activating water is tepid / warm.

Pressure Tests

Objective

To establish by cold, non-shock method the pressure resistance of the moisture curing bandage against water.

Test System Hydrostatic Pump SC 1000psi - Model No. 57052.

Manufacturer

Hydraulic Engineering Corp.

Test Piece

Carbon steel pipe to API 5L100mm OD with closed coupling with 2 x 4mm diameter holes at 20mm centres drilled through the wall of the pipe.

Product

3" x 9" Moisture curing bandage.

Test Procedure Submerge bandage in water at room temperature and apply directly to the Test Piece. Leave for one hour and test pressure resistance in general accordance with API 6. and A.S.M.E. Raise pressure in small increments. Observe and record the first signs of leakage. Release pressure and then re-test recording again the first signs of leakage. Repeat test three times to establish an average result.

Results

First Leakage 13 to 15 Bar Second Leakage 3 to 5 Bar

Chemical Resistance Data Most Dilute Acids, Brine, Oils, Toluene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oils, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel, Caustic Soda 50%. Results: No Softening of the bandage.

Sizes

Quick Wrap A (50mmx1.5mtr) - Designed for pipes up to 45mm diameter. Quick Wrap B (75mmx2.75mtr) - Designed for pipes up to 75mm diameter.

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VPD9008 Quick Wrap Fast Acting Repair Bandage

Quick wrap applications in Industry.

Coal Mines Area of use : Coal preparation wash plants : water, stream, slurry lines etc. Reason for use : Emergency, temporary repairs to leaking pipe.

Steel Smelter Works

Area of use: Processing: blast furnaces, water, steam ,waste product pipes. Reason for use : Emergency repairs until shutdown

Steel sheet and coil manufacturing

Area of use : Processsing : Stream and watre pipes Reason for use : Emergency repair to burst pipes

Petroleum

Area of use : Oil, gas, water supply lines Reasons for use : Emergency repairs to fuel, oil and gas lines during 24 hr shift

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Coal, copper and zinc smelting

Area of use : Processing : blast furnaces, water, steam, sludge and slurry lines Reason for use : Emergency repairs

Gold Mines

Area of use : Processing plant : Chemical, sludge, slurry, by-product / waste pipes Reason for use : Emergency repairs to chemical repair lines

Bauxite Mines

Area of use : Processing plant : Refinery / Alumina section Smelter / Aluminium section Reason for use : Emergency repairs to chemical supply lines

Sugar Mills

Area of use : Corrosive fluid lines, abrasive product pipes, general low pressure, water and steam lines. Reason for use: Emergency repairs to corrosive, water, steam and abrasive lines

Aluminium

Area of use : Processing : Boiler rooms, sludge, slurry, water and steam pipes Reason for use : Emergency repairs to sludge and chemical lines

Power Stations

Area of use : Ash transfer systems, pulverised fuel tubes, cooling water lines. Reason for use : Emergency repairs to transfer systems and lines

Timber Mills

Area of use : Processing of wood paneling, ply and softwood Reason for use : Emergency repairs to transfer systems and lines

Quarries

Area of use : Wash plants : leaking pipes within rock, gravel, granite and greenstone quarries Reason for use : Emergency repairs to leaking pipes

Merciant Shipping

Area of use : Engine use Reason for use : Emergency repairs whilst at sea to fuel, oil, water and waste lines. Damage control within engine room and fire fighting facilities

Marine (coast guard)

Area of use : Engine room Reason for use : Emergency repairs to fuel, water and oil lines etc.

Marine and Yacht Chandlery

Area of use : General emergency repairs Reason for use : Emergency repairs to pipes, punctured hulls, jury rigs etc.

Paper Manufacturing

Area of use : Pulp mill Reason for use : Emergency repairs to chemical, water and waste lines

Motor Vehicle Manufacturing

Area of use : Production Manufacturing Plant Reason for use : Emergency repairs to chemical, water and steam pipes

Food manufacturing and processing

Area of use : Processing plant Reason for use : Emergency repairs during 24 hr operations to chemical, food, waste and water lines

Agricultural

Area of use : General Repairs around the farm Reason for use : Emergency repairs to engines, equipment, irrigation lines etc.