

Metal Aid Engineers

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MAGIC-WRAP-PIPE & JOINT REPAIR KIT

MAGIC-WRAP is resin impregnated water activated fiberglass cloth tape, easy to use, quick action answer, will repair broken parts, arrest pipeline / Tank leakages etc. sets rock hard even under water.

Where to apply?

PVC, metals, rubber, fiberglass, plastics etc. Under-water, under - ground, and in corrosion protection area.

In Mediums

Water, acids, soda solutions, fuel oil with water, white spirit, toluene, xylene, diesel, gasoline, gas, air, steam, hydraulic fluids etc.

TYPICAL APPLICATION: PIPE LEAK SEALING

Clean & Roughen the area to be repaired. Remove any oily or foreign particles Soak the MAGIC-WRAP in Water for 20 seconds (Using gloves) Wrap MAGIC-WRAP the entire roll, approximately 2" above and below the repair area. Wrap as tightly as possible.

Squeeze and mold MAGIC-WRAP in the direction of wrap, removing excess water and spreading resin Until tacky to touch. (app.3 Mins)



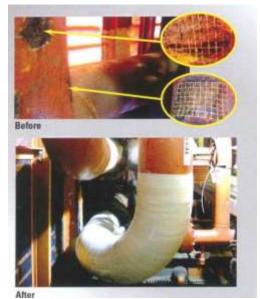






A minimum of 8 layers of 'MAGIC-WRAP' is required and shall be applied from right to left or from left to right in a spiraly maner around the pipe using 50% overlap. At the end of first pass, reverse the direction of the wrap and continue to apply until you have achieved specified number of layers. To achieve 8 layer application, apply 4 passes using a 50% overlap. Occasionaly twisting the MAGIC-WRAP as it is applied helps it conform tightly to the pipesurfac atelbows or at odd geometries. Allow 30 minutes for complete curing.

MULTIPLE ROLLS CAN BE USED FOR LARGER DIAMETER PIPES OR YOU CAN SPECIAL ORDER SIZES OF 4" X 20', 30', or 50'. AS A GENERAL RULEOF THUMB, USE 4-5 FT OF MAGIC-WRAP FOR EVERY INCH OF PIPE DIAMETER.



In applications wherever wrapping is not possible, like plugging a hole, MAGIC-WRAP should be unraveled and mold into a ball and plugged into the hole cand hand pressure can be given for about 5 minutes

Product Data

Tensile strength	Method: ASTM D3039
Hoop PSI	56,700
Axial PSI	21,600
Hardness	Shore D
30 minutes	47
2 hours	76
24 hours	83
<u>Flexural</u>	Method: ASTM D790 – 3 point flex
Strength PSI	16,100

Shear Method: ASTM D648

Strength PSI 7520

Coeff Of linear exp Method: ASTM D648 CTLE 1.06E-05

Dielectric strength 16000 volts

TYPICAL APPLICATIONS

impact protection emergency repair

cracked or corroded pipes irregular pipe fittings

force mains and gravity pipe lines Under water repair and splash zone

Joint and tee repair

PROPERTIES

VOCs; None

Pressure once cured: 20.6 BARS Working Time: 5 Mints at 24°C Set time: 30 Minutes Approx.

TYPICAL USAGE: INDUSTRY-WISE

COAL MINES: Coal preparation wash plants: MDISC, water, steam, slurry and sludge lines etc. Emergency repairs to leaking pipes.

GOLD MINES: processing plant: chemical, sludge, slurry and by-product/waste pipes. Emergency repairs to chemical supply lines.

BAUXITE MINES: processing plant: refinery/alumina section and smelter/aluminum section. Emergency repairs to sludge & chemical lines.

COAL, COPPER & ZINC SMELTING Processing: blast furnaces, water, steam, sludge and slurry lines. Emergency repairs.

STEEL SMELTER WORKS Processing: blast furnaces, water, steam and waste product pipes. Emergency repairs until shutdown.

STEEL SHEET & COIL MANUFACTURING Processing: steam and water pipes. Emergency repairs to burst pipes.

PETROLEUM Oil, gas and water supply lines. Emergency repairs to fuel, oil and gas lines during 24 hour shift.

SUGAR MILLS Corrosive fluid lines, abrasive product pipes, low pressure, water and steam lines. Emergency repairs to corrosive, water, steam and abrasive lines.

POWER STATIONS Ash transfer systems, pulverized fuel tubes and cooling water lines. Emergency repairs to transfer systems and lines.

MERCHANT SHIPPING Engine room. Emergency repairs while at sea to fuel, oil, and water and waste lines. Damage control within engine room and firefighting facilities.

Additional to leak repairs, Rapp-it can also be used as corrosion protection and noise reduction.

MAGIC WRAP-SELECTION AND PRICES

Pipe Diameter	Roll size recommended	Unit	
1/2" - 1"	50 M.M X 1500 M.M	Box= 3 Tapes	
1 ¼" - 2"	75 M.M X 2700 M.M.	Box=2 Tapes	
> 2"	100 M.M X 4500 M.M	Box= 1 Tape	

(Tapes of higher sizes available on request)

Chemical Resistance

Immersion Chemical	Immersion Time	Effect	Immersion Chemical	Immersion Time	Effect
Distilled Water	60 Days	None	White Spirit	60 Days	None
Sulphuric Acid, 10%	60 Days	None	Toluene	60 Days	None
Sulphuric Acid, 50%	60 Days	None	Xylene	60 Days	None
Hydrochloric Acid, 10%	60 Days	None	Diesel Fuel	60 Days	None
Soda Solution, Saturated	60 Days	None	Gasoline	60 Days	None
Sodium Hydroxide, 20%	60 Days	None	Steam/Gas	60 Days	None
Fuel Oil + % Water	60 Days	None	Hydraulic Fluids	60 Days	None