 **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 Soak the MAGIC-WRAP in Wrap MAGIC-WRAP the Squeeze and mold MAGIC-WRAP

be repaired. Remove any oily Water for 20 seconds entire roll, approximately 2” in the direction of wrap, removing

or foreign particles (Using gloves) above and below the repair excess water and spreading resin

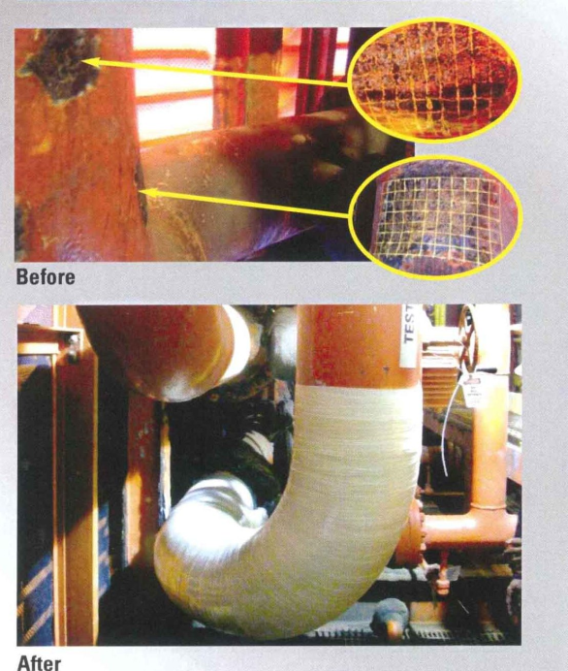
area. Wrap as tightly as possible. Until tacky to touch. (app.3 Mins)



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.** |

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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

**Flexural Method: ASTM D790 – 3 point flex**

Strength PSI 16,100

**Shear Method: ASTM D648 TYPICAL APPLICATIONS PROPERTIES**

Strength PSI 7520 impact protection VOC**s;** None

**Coeff Of linear exp Method: ASTM D648** emergency repairPressure once cured: 20.6 BARS

CTLE 1,06E-05 cracked or corroded pipes Working Time: 5 Mints at 24ْC

Dielectric strength 16000 volts irregular pipe fittings Set time: 30 Minutes Approx.

Heat resistance 1100°F force mains and gravity pipe lines

Under water repair and splash zone

Joint and tee repair

**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** | **ll Roll size recommended size** | **recom Unit Price per unit** | | **½” – 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** | |

**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** | **Toulene** | **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** |