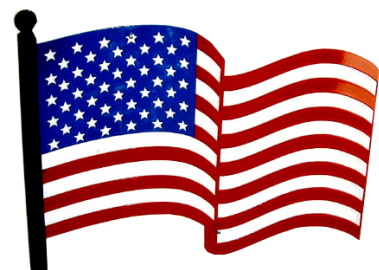




Advantages:

- Eliminates Downtime
- Setting Time Only 30 Minutes
- No Mixing - No Measuring
- Simple & Easy to Apply
- Water Activated
- Under Water Repair
- Seals: Oil, Steam Chemicals
- Repair Pipes from 1/2" to 80"
- Used by Department of Defense
- Can Be Used on HDPE Piping
- Underground Mine Piping
- Ideal for Coal Prepping Plants
- Irregularly Shaped Repairs
- Reinforce Corroded/Damaged Pipes



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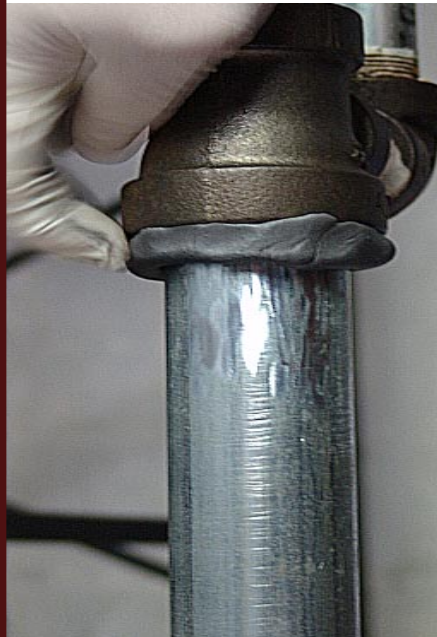
Step 1:

**Knead Epoxy Until
Uniform in Color**



Step 2:

**Roll into Rope/Ball
& Place in Joint or
Crack**



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Step 3:

**Wrap Rubber Tape
(Stretch to Max Tension)
Directly over Putty**



Step 4:

Keep Overlapping tap,
until leak has stopped.



Step 5:

Soak in temprate water
for 20 sec. Wrap from 2"
left of leak to 2" right
of leak. Tight as possible



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Step 6:

Squeeze Mold removing
excess water & spreading
resin until tacky to touch
Allow 30 mins before
resuming pressure





Leak Repair Kit

Under Pressure System

(Reduce to 60 psi before applying)



- Stops leaks; Rock hard in minutes
- Repair pipes & joints
- Resume service in an hour
- No Training! No Mixing! No Mess
- No Shut Down, No Production loss
- Adheres & cures underwater
- Conforms to odd shapes
- Paint & sand if required
- Superior adhesion & pressure retention
- Max temp after curing 500°F/260°C
- Conforms to NSF61 & BS6920
- Manufactured per ISO 9001:2000



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Leak Repair Kit...**Pressurized Systems**

LEAKWRAP is a woven fiberglass tape pre-impregnated w/urethane resin which is water-activated. **LEAKWRAP** requires no mixing, measuring, waiting or clean up. Simply use straight out of the package. Standard setting time is 30 minutes, but will vary pending temperature.

LEAKWRAP is a fast, durable & cost effective pipe repair system that bonds to metal or pvc pipe. This revolutionary product will set under water making it ideal for applications in splash zone. Corrosion protection, reinforcement, pilling protection & electrical insulation to 16000 volts.

LEAKWRAP will retain pressure on supply lines and wil function under intermittent temperatures up to 500* F/260* C.



Precautions:

The resin used in LEAKWRAP will adhere to skin & clothing and may cause skin irritation. Protective gloves should be worn while handling. Care should be exercised to avoid contact with unprotected areas of skin & eyes. Swabbing lightly with alcohol/acetone will help in removing resin from skin (prior to set). Flush eyes w/water 15 minutes & then contact doctor.

Store in a cool, shaded & dry area.

Rasstech Industries warrants the quality of this product when used according to directions. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement.

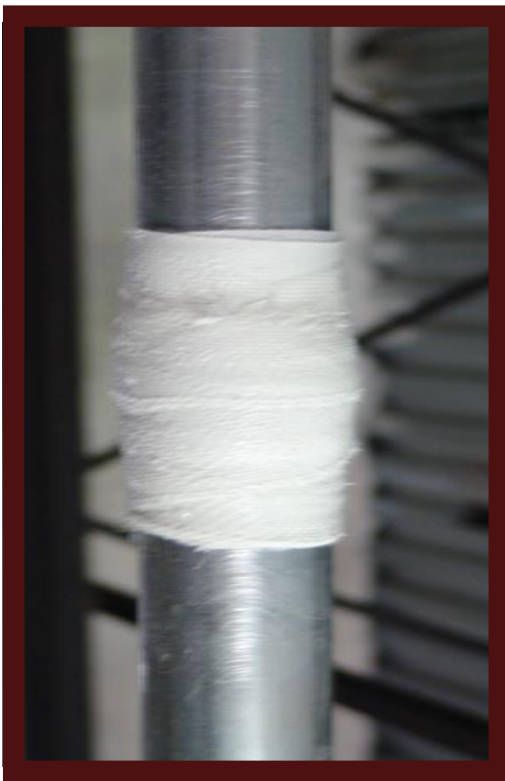
Part Number	Description	LARGER SIZES AVAILABLE
LW2X5UP	Pipe Repair Kit for Depressurized Systems up to 1" O.D.	
LW3X9UP	Pipe Repair Kit for Depressurized Systems 1 1/4 - 2" O.D.	
LW4X15UP	Pipe Repair Kit for Depressurized Systems 2 1/2 - 4" O.D.	



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Leak Repair Kit **For Depressurized Systems**



- Stops leaks; Rock hard in minutes
- Repair pipes & joints
- Resume service in an hour
- No Training! No Mixing! No Mess
- No Shut Down, No Production loss
- Adheres & cures underwater
- Conforms to odd shapes
- Paint & sand if required
- Superior adhesion & pressure retention
- Max temp after curing 500°F/260°C
- Conforms to NSF61 & BS6920
- Manufactured per ISO 9001:2000



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Leak Repair Kit...**Depressurized Systems**

LEAKWRAP is a woven fiberglass tape pre-impregnated w/urethane resin which is water-activated. **LEAKWRAP** requires no mixing, measuring, waiting or clean up. Simply use straight out of the package. Standard setting time is 30 minutes, but will vary pending temperature.

LEAKWRAP is a fast, durable & cost effective pipe repair system that bonds to metal or pvc pipe. This revolutionary product will set under water making it ideal for applications in splash zone. Corrosion protection, reinforcement, pilling protection & electrical insulation to 16000 volts.

LEAKWRAP will retain pressure on supply lines and wil function under intermittent temperatures



Precautions:

The resin used in **LEAKWRAP** will adhere to skin & clothing and may cause skin irritation. Protective gloves should be worn while handling. Care should be exercised to avoid contact with unprotected areas of skin & eyes. Swabbing lightly with alcohol/acetone will help in removing resin from skin (prior to set). Flush eyes w/water 15 minutes & then contact doctor

Store in a cool, shaded & dry area.

Rasstech Industries warrants the quality of this product when used according to directions. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement.

Part Number	Description	LARGER SIZES AVAILABLE
LW2X5NP	Pipe Repair Kit for Pressurized Systems up to 1" O.D.	
LW3X9NP	Pipe Repair Kit for Pressurized Systems 1 1/4 - 2" O.D.	
LW4X15NP	Pipe Repair Kit for Pressurized Systems 2 1/2 - 4" O.D.	



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Fiberglass Cloth Impregnated with WaterActivated Urethane Resin

TYPICAL END USE APPLICATIONS:

- Reinforcement of corroded pipe lines with up to 80% wall thickness loss
- Repairing Leaking pipes, flanges, joints, and fittings
- Under water pipelines repairs
- Corrosion protective coating

BENEFITS:

- Cost effective; eliminates costly shut downs, save on labor and materials
- Quick, saves time - lengthy shut downs not required
- Resistant to hot & cold temperature extremes
- Simple and easy to apply, no mixing or messy clean up
- Resistant to water, acids, salts or soil organics
- Can be applied under water, to wet surfaces, under or above ground
- Good adhesion and chemical resistance
- Permanent, maintenance free repairs



Mechanical Properties	Value
Tensile Strength, psi ASTM D 638 TYPE I - 8 PLY	36,448
Flexural Strength, psi ASTM D 790 TYPE I - 8 PLY	26,100
Compressive Strength, psi ASTM D 695 I - 8 PLY	8,072
Dielectric Strength, volts	16,060
Heat Resistance, continuous* C	150
Setting Time, 21* C., minutes	28



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Fiberglass Cloth Impregnated with Water Activated Urethane Resin

PIPE DIAMETER	50 PSI INTERNAL Pressure -19 Wraps	150 PSI INTERNAL Pressure-15 Wraps	400 PSI INTERNAL Pressure-20 Wraps
1/2"	1 Roll (LW 2"x5')	1 Roll (LW 2"x2')	1 Roll (LW 2'x5')
3/4"	1 Roll (LW 2"x5')	1 Roll (LW 2"x5')	1 Roll (LW 2"x5')
1"	1 Roll (LW 2"x5')	1 Roll (LW 2"x5')	2 Rolls (LW X"x5')
1 1/4"	1 Roll (LW 3"x9')	1 Roll (LW 3"x9')	1 Roll (LW 3"x9')
1 1/2"	1 Roll (LW 3"x9')	1 Roll (LW 3"x9')	1 Roll (LW 3"x9')
2"	1 Roll (LW 3"x9')	1 Roll (LW 3"x9')	2 Rolls (LW 3"x9')
2 1/2"	1 Roll (LW 4"x15')	1 Roll (LW 4"x15')	2 Rolls (LW 4"x15')
3"	1 Roll (LW 4"x15')	2 Rolls (LW 4"x15')	2 Rolls (LW 4"x15')
3 1/2"	1 Roll (LW 4"x15')	2 Rolls (LW 4"x15')	2 Rolls (LW 4"x15')
4"	1 Roll (LW 4"x15')	2 Rolls (LW 4"x15')	3 Rolls (LW 4"x15')
5"	1 Roll (LW 4"x15')	2 Rolls (LW 4"x15')	3 Rolls (LW 4"x15')
6"	2 Rolls (LW 4"x15')	2 Rolls (LW 4"x15')	4 Rolls (LW 4"x15')
8"	2 Rolls (LW 4"x15')	3 Rolls (LW 4"x15')	5 Rolls (LW 4"x15')
10"	3 Rolls (LW 4"x15')	4 Rolls (LW 4"x15')	6 Rolls (LW 4"x15')
12"	4 Rolls (LW 4"x15')	5 Rolls (LW 4"x15')	8 Rolls (LW 4"x15')
14"	4 Rolls (LW 4"x15')	6 Rolls (LW 4"x15')	8 Rolls (LW 4"x15')
16"	5 Rolls (LW 4"x15')	7 Rolls (LW 4"x15')	8 Rolls (LW 4"x15')
18"	5 Rolls (LW 4"x15')	8 Rolls (LW 4"x15')	9 Rolls (LW 4"x15')

Above 18" Consult Factory



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Typical Properties:

Mechanical Properties:

Tensile Strength, psi	----- ASTM D 638 Type I-8 -----	34,448
Flexural Strength, psi	----- ASTM D 790 Type I-8 -----	26,100
Compressive Strength, psi	----- ASTM D 695 Type I-8 -----	26,660
Dielectric Strength	----- Volts -----	16,060
Temperature Resistance	----- Continuous, Intermittent -----	300,500
Setting Time at 75* F	----- Minutes -----	28
Shelf Life	----- Months -----	24

Hazards

Non Toxic, Non-Combustible

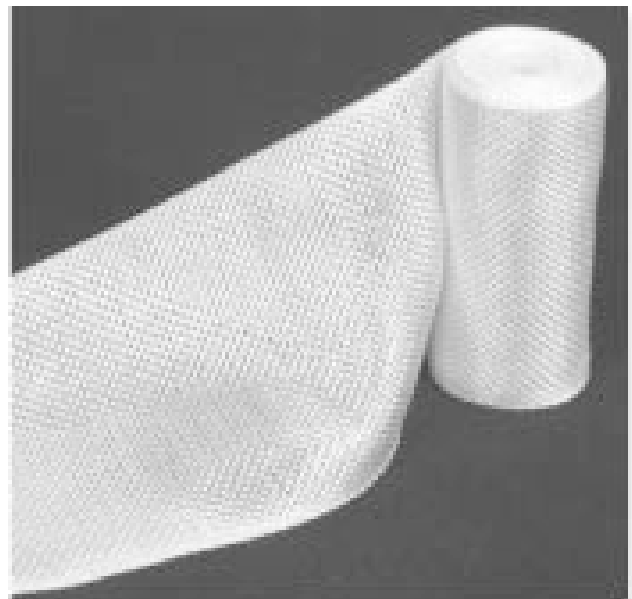
Repair Substrates

Steel, Galvanized, Concrete, FRP, IRON, PVC

Chemical Resistance:

ASTM D 543, TEST PERIOD 2 MONTHS @ 73°F

<i>Solution Tested</i>	<i>Product Result</i>
Sulfuric Acid 10%	No Change
Sulfuric Acid 50%	No Change
Hydrochloric Acid 10%	No Change
Hydrochloric Acid 50%	No Change
Sodium Hydroxide Solution 20%	No Change
Gasoline	No Change
Toluene	No Change
Xylene	No Change
Mineral Spirits	No Change
Nitric Acid 50%	Blistering
Distilled Water	No Change

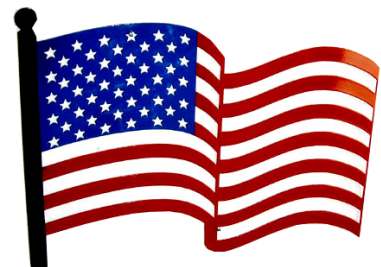


Temperature vs. Setting Time:

Average Temp	Approx Set Time
95* F (35* C)	23 min.
70* F (21* C)	28 min.
60* F (16* C)	1 hr. 25 min.
50* F (10* C)	2 hr. 42 min.
42* F (6* C)	3 hr. 02 min.
35* F (2* C)	6 hr. 21 min.

Note: The above items are approximate setting times, no cure times. Generally, at 70* F (21* C) curing is usually sufficient in about 2-3 hours. At 45* F (8* C), please allow 72 hours.

Important: The type of primary patch used will dictate the time required



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