

Repair any Pipe **FAST!** with the Proven



PIPE REPAIR SYSTEM

**Restore Product Flow and Profit Flow in Minutes
Prevent Environmental Contamination!**



Use for Permanent Repair *or* to Extend the Service Life of Piping



works on:

Any metal or plastic pipe:
Steel • Copper • Aluminum • Galvanized
Black Iron • Stainless Steel • PVC
CPVC • Fiberglass • Polyethylene
Polypropylene and even PVDF.
Pressure to 400 PSI
Temperatures to 500° F
**Recommended for use on pipes
up to 18 inches in diameter.**



is used for:

Routine and Emergency Leak Repair
Hazardous Material Spill Control
Structural Reinforcement • Sealing Joints
Rebuilding Thinning Wall
Corrosion Proofing • Abrasion Protection
Repairs in Hard to Reach Areas
Underwater Repairs
Electrical Conduit Repair



is used by:

Petrochemical • Industrial Processing
Pulp and Paper • HazMat Response
Military • Marine • Irrigation
Power Generation • Facilities Maintenance
Water/Wastewater • Manufacturing
Commercial Fishing
Food Processing • Pharmaceutical
Automotive



STOP IT® PIPE REPAIR SYSTEM

Each kit includes:

- STOP IT® knitted fiberglass tape pre-coated with water-activated polyurethane resins.
- FIX STIX™ hand moldable epoxy.*
- Gloves for easy clean up.
- Detailed directions.

*Included FIX STIX™ hand moldable epoxy is resistant to hydrocarbons and most chemicals and is NSF certified for use on potable water.

FIX STIX™



Certified to
ANSI/NSF 61



Customer Service on Call 24 Hours 800-523-STOP (7867) • Visit us on the web at www.indumar.com

STOP IT® PIPE REPAIR SYSTEM GETS THE JOB DONE TIME AFTER TIME SINCE 1986!

Ideal for repairing pipe leaks, reinforcing pipe joints, rebuilding thinning pipe walls and corrosion proofing – in virtually any situation, **even underwater!** It fully cures to a hard, durable repair in 30 minutes.

The **STOP IT® Pipe Repair System** includes a strong knitted fiberglass tape coated with fast setting urethane resins that are water-activated. The system also includes **FIX STIX™**, a steel-filled hand-moldable epoxy that sets rock hard in only 20 minutes. It is perfect for plugging leaks, filling cracks and complex voids and offsets at couplings and fittings.

Using the **STOP IT®** urethane rich fiberglass tape in combination with **FIX STIX™** greatly increases repair capacity. One person, with no special tools and no hot work can apply this quick in-field repair system in minutes.

Whether you are repairing a chemical process line or any other critical pipeline, the **STOP IT® Pipe Repair System** is your dollar-saving ally in the battle against lost-production costs in common situations. Under certain conditions an active gravity-flow leak (about 15 PSI or less) from a pinhole may be repaired without shutting down.

Stop Leaks
and Restore
Flow in
Minutes

STOP IT® PIPE REPAIR SYSTEM – TECHNICAL INFORMATION

Compatibility and Chemical Resistance: The STOP IT® Pipe Repair tape combined with FIX STIX™ epoxy is generally compatible with a wide range of chemicals and may be used with any type of plastic or metal piping containing:

- Hydrocarbons including Petrochemicals, Fuels, Solvents, Gases
- Acids
- Bases
- Water
- Slurries
- Steam
- Organics
- Salts

The durability of the repair may be affected by very strong acids (pH under 3) or bases (pH over 12). Consult the STOP IT® Pipe Repair System and the FIX STIX™ Chemical Compatibility Charts for more detailed chemical resistance information.

Potable Water: The FIX STIX™ included in each STOP IT® Pipe Repair System kit is NSF certified for use on potable water. STOP IT® is also accepted for use on potable water lines by the WRC (U.K.)

Shelf Life: 2 years from date of purchase when stored at 40° F to 83° F (5° C to 28° C) with proper stock rotation.

Color: White or Black.

Tensile Strength: ASTM D 638-111, 3,920 PSI (275 kg/cm²).

Bond Strength: ASTM D 2095-72, 230 PSI (16 kg/cm²) average.

Flexural Yield Strength: ASTM D 790-1-B, 2,260 PSI (159 kg/cm²).

Durometer Hardness: ASTM D 2240, 82 type (d).

Tension Pull Strength: Applying 2" x 12' STOP IT® to a 2 inch (5.08 cm) PVC pipe coupling provides an average increase of 2,132 pounds (967 kg) in pull-out strength. Tension pull strength will vary with type of pipe, pipe diameter and amount of product applied.

Temperature/Heat Resistance: From -20° F up to 250° F (-29° C to 121° C) – continuous. From 250° F to 500° F (121° C to 260° C) – intermittent. If possible, the pipe should be at ambient temperature before application.

Pressure Retention Capacity: Recommended for pressures up to about 400 PSI (28 kg/cm²). Results may vary depending on hole size, type of pipe, pipe diameter, contents of pipe and method of application.

Set Time: Tack free in 3 to 5 minutes at ambient temperatures of 50° F to 80° F (10° C to 27° C). Set time is slower below 50° F and faster above 80° F.

Cure Time: Normally cures in 30 minutes at ambient temperatures between 50° F to 80° F (10° C to 27° C). Longer cure times may occur when ambient temperature is less than 50° F (10° C). Heat may be applied to accelerate cure times. Cure time is greatly accelerated at extremely high ambient or pipe surface temperatures. The UNOPENED foil pouch may be immersed in cool water for at least 15 minutes to slow set and cure times and to provide ease of handling.

Description: Each STOP IT® Pipe Repair System kit contains a roll of knitted fiberglass tape pre-coated with water activated polyurethane resins enclosed in a sealed foil pouch, a piece of FIX STIX™ epoxy, latex gloves and printed instructions.

Roll Sizes:

- Small: 2 inches wide by 4 feet long (5.08 cm x 1.2 m).
- Medium: 2 inches wide by 12 feet long (5.08 cm x 3.6 m).
- Large: 4 inches wide by 12 feet long (10.16 cm x 3.6 m).

Case Contents: Ten (10) kits.

Case Dimensions: 22" x 9.5" x 5" (56 cm x 24 cm x 13 cm).

Case Weight:

- Small: approximately 4 pounds (1.8 kg).
- Medium: approximately 6 pounds (2.7 kg).
- Large: approximately 8 pounds (3.6 kg).

Item and NSN Numbers

- Small: White 24786, NSN 4730-01-301-3686, Black 24257.
- Medium: White 21278, NSN 4730-01-301-3687, Black 21225.
- Large: White 41278, NSN 4730-01-301-3688, Black 41225.

STOP IT® does not contain any Volatile Organic Compound (VOC) as defined in the USA for regulatory purposes.

(ASTM used as a guideline.)



Problem Solving Products for Industry™



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First Response™ Leak Repair Kit

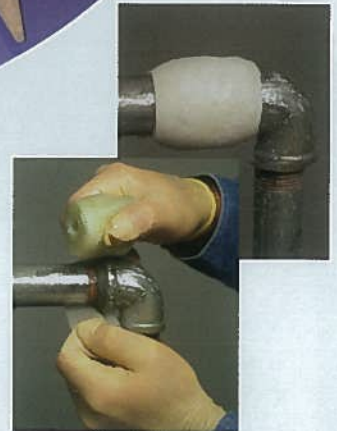
From InduMar Products, Inc.



**Plug N Dike
Plug Rug:**
Apply to hole in tank or place over drain. May be overlapped and is available separately in larger sizes.



Lead Wool Filler:
Used to repair stress fractures in tanks and welds. It can also be used on pipe connections where the threads meet elbows, T's and flanges.



Stop It® Pipe Repair System:
Fiberglass tape coated with polyurethane resin activated when immersed in water. Simply wrap around pipe where it is leaking. Works on straight runs, elbows, and T's. Used in conjunction with Fix Stix™ Epoxy, it will also work on some small flang leaks. Instructional CD included.



**Plug N Dike
premixed putty:**
Simply apply right to hole.

Fix Stix™ Epoxy:
Knead until uniform color and apply. Works on cracks and small holes on wet, flat, or curved surfaces, pipes, flanges, elbows, and T's.



**Wooden wedges
and dowels**

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EMERGENCY LEAK CONTROL KITS™

UNIVERSAL SERIES – Kits AE and D

Universal kits are designed to plug hazardous material leaks in any type of low-pressure vessel. The kits contain everything needed to respond to leaks in tanks and drums. The wide variety of sealing devices and materials address surface holes of all shapes, as well as cracks and gashes. All bolts, back-up plates, and hardware manufactured from 304 stainless steel. Accompanying tools are available in standard or non-sparking versions.

Kits 'AE' and 'D' contain two toggle-bolt ball plugs, six toggle-bolt surface plugs, two T-bolt crack patches, five self tapping screw patches, nine assorted wooden plugs, Fix Stix™ Epoxy, Plug-N-Dike™ Plug Pattie, lead wool pack, hot/cold hose repair tape, sorbent pad, tubeless tire repair kit, 8" x 12" solid neoprene and 20" x 20" closed-cell foam gasketing material, steel drift pin, OSHA approved 200' roll of barricade tape, tools for installing all patches and heavy duty carrying case.



KIT AE – For Tanks, Vessels, Drums



KIT D – For Drums

Kit 'AE' contains items for larger holes, cracks and gashes in addition to the standard items listed above. These include one 8" x 12" stainless steel plate lined with 3/4" thick soft neoprene material and three T-bolts with preassembled wingnut washer combos. A second 8" x 12" stainless steel neoprene backed plate is included with hardwood cribbing ladder patch and two 22' heavy-duty nylon straps.



KIT C-2

EXTERNAL PIPE LEAK CONTROL KITS – Kits C-2 and C-3

Pipe Leak Control Kits are designed to quickly respond to leaks in straight runs of piping. Simply snap the clamp around the pipe, drop bolt head through open-slotted lug and tighten nuts. Versatile clamps respond to water, wastewater, fuel, chemical, air and gas leaks.

Repair clamps are made of corrosion resistant 304 stainless steel, lugs are made of rugged ductile iron and shop coated for added protection. Bolts are plated for longer life. Grade 304 rubber compound gasket offers superior resistance to oils, aromatic and aliphatic hydrocarbons, condensates, gasoline and natural gas.

All External Pipe Leak Control Kits include extra solid neoprene and closed-cell foam gasketing material for odd sized, out-of-round, and corroded pipe applications. Accompanying tools are available in standard or non-sparking versions. Kits are packaged in a heavy-duty carrying case.

SERIES 'C-2' contains ten assorted clamps for 1/2" through 4" diameter pipe, extra gasketing material and installation tools. Clamp sizes are 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4".

SERIES 'C-3' contains three large clamps for 5", 6" and 8" diameter pipe, extra gasketing material and installation tools. Clamp sizes are 5", 6" and 8".



KIT C-3

PIPE PLUGGER KIT – KIT C-1

The Pipe Plugger Kit is designed to quickly plug open-ended pipes. Kit allows you to instantly plug knocked-off pipes carrying water, fuel, chemicals and gas. Great for knocked-off gas meters and tank truck discharge valves. 1" to 5" sizes have pressure relief vents to help get the plugs seated under pressure. Pressure relief vents on 1 1/2" through 5" plugs can connect to enclosed valve and discharge hose. This enables fluid or gas to be rerouted to another line, discharged to a recovery vessel or flared. The Pipe Plugger Kit can also

be used for drain line cleaning and nitrogen purging operations.

SERIES 'C-1' contains ten stainless steel pipe plugs, wooden plug, valve and discharge hose set, all necessary tools for installation and heavy-duty carrying case. Plug sizes are 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/2", 3", 4".

A separate 5" 'C-1' plug is also available.



KIT C-1



KIT F

THE ROLL-OVER KIT – Kit F

The Roll-over Kit is designed to patch a large hole, crack, or gash in a large vessel or tank. The kit has a patch that conforms to the curvature of the vessel. The patch uses a variety of T-bolts to support itself directly to the hole. The leak is then sealed by tightening the compression bolts around the frame, conforming the patch to the vessel.

Series 'F' contains one 3/4" neoprene gasketed stainless steel patch measuring 13" x 23". One stainless steel support frame with compression bolts, three stainless steel T-bolts with preassembled wingnut washer combos, all necessary tools and heavy-duty carrying case.

From the makers of the **STOP IT® PIPE REPAIR SYSTEM**



20-MINUTE EPOXY

A hand-moldable, industrial strength, steel filled epoxy... stop leaks, fill holes and cracks, bond and repair almost anything.



No hot work or special tools required. Ready to use.

This simple, easy to use epoxy stick will stop leaks, fill holes and cracks fast. **FIX STIX™** sets rock hard in about 20 minutes, works underwater and in a wide temperature range. **FIX STIX™** is pre-measured, non-toxic, solvent free, has little odor, can be used on potable water lines and has excellent chemical resistance. It will not shrink, crack or pull away. **FIX STIX™** can be machined, threaded and painted after fully curing.

FIX STIX

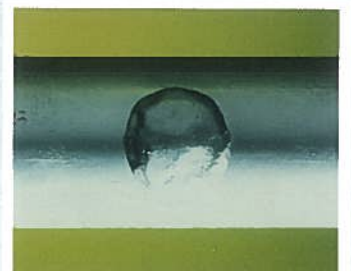


Certified to
ANSI/NSF 61

THOUSANDS OF USES!



Easy to use, super strength, saves money in repairs



Fill holes, cracks and voids, repair threads, broken parts. Keep at least one in every toolbox.

FIX STIX™ – TECHNICAL INFORMATION

Physical Properties

Working time: 2 minutes

Set time: 20 minutes

Maximum use temperature: 300° F (149° C)

Dielectric strength: 300 volts/mil at 0.15 cm

Volume resistivity: 1 x 10¹² ohm/cm

Density: 18.5 lb/gal (22gm/cm)

Compression Strength: 12,000 psi

Tensile Strength: 6,000 psi

Modulus of Elasticity: 6 x 10⁵ psi

Lap Shear Strength (steel): 900 psi

Izod Impact: 0.3 lb/in (notched)

Hardness (Shore D) 80

USDA: Acceptable for use in federally inspected meat and poultry plants

Chemical Resistance: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.

Ordering Information

Packaged: 28 units/case

Product Dimensions: 3.6" (9.2cm) x 7/8" (2.2cm) each unit

Case Dimensions: 12" x 9" x 5" (31cm x 23cm x 13cm)

Case Weight: 4.75 lbs (2kg)



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From the makers of the **STOP IT® PIPE REPAIR SYSTEM**



SELF-FUSING TAPE

High temperature, heavy duty, self-bonding, seamless silicone tape.

Simple to use, all purpose self-fusing tape is superior to shrink wrap tubing and vinyl tapes.

FUSION TAPE™ bonds into a permanent, inseparable, cohesive insulator at room temperature and has a dielectric strength of 400 volts/mil. This remarkable tape maintains its insulating, sealing and elastic properties in a wide range of temperatures. It won't crack or separate with sudden shock, vibration,

expansion or contraction. **FUSION TAPE™** is not tacky to the touch and requires no heat or tools to promote fusion. An ideal wrap for terminating high voltage cables. **FUSION TAPE™** can also be used as a primary cable insulation where Class H temperatures (180° C / 356° F) are present. It also resists moisture and ozone, making it an excellent environmental insulator.

THOUSANDS OF USES!

Fuses into a solid piece of silicone rubber!



FUSION TAPE™ fuses into a solid piece of silicone rubber with no adhesive residue.

FUSION TAPE™'s triangular cross section results in a more uniform thickness when the edges are overlapped.



FUSION TAPE™ is sand blasted and cut away to reveal undisturbed electrical connection.

FUSION TAPE™ is still intact after submersion in used motor oil for over 1 1/2 years.



FUSION TAPE™ – TECHNICAL INFORMATION

Physical Properties

Operating Temperatures (Intermittent):

-85° F to 500° F (-65° C to 260° C)

Operating Temperatures (Continuous):

-65° F to 500° F (-54° C to 260° C)

Dielectric strength, Minimum: 400 volts/mil (0.020" thick)

Dielectric Constant, 1Khz: 2.95

Dissipation Factor, 1Khz: <.0004

Volume Resistivity: 3 x 10¹⁴ ohm/cm

Cold Brittle Point, Maximum: -65° C

Water Absorption: 3% maximum by weight

Tensile strength: 700 psi minimum

Ultimate Elongation: 300% minimum

Tear Resistance: 85 psi

Durometer hardness: 50 shore A room cured 24 hours

Meets or Exceeds: U.S. Military Spec A-A-59163

(Supercedes MIL I-46852C) Type II Triangular Guideline and Type I, Rectangular, Self-fusing silicone rubber tape.

Ordering information

Packaged: 12 rolls/case

Product Dimensions: Width 1" (2.5cm), Length 20' (6.1m), Thickness 0.020" (0.05cm)

Case Dimensions: 12" x 9" x 5" (31cm x 25cm x 13cm)

Case Weight: 2.5 lbs (1.1kg)



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STOP IT® CASE HISTORIES

REFINERIES & PETROCHEMICAL

Arco Bayport – Pasadena, TX: STOP IT® was used on a 12” dia. steel flare header carrying fuel gas. The operating pressure was 8 psi and the temperature was ambient. The line had pin hole leaks over a 15’ area, and could not be shut down. They used 20 rolls of 4” x 12’ STOP IT® to seal the leaks and reinforce the thin wall pipe. *Quote: “Easy to use, works great.”*

S. R. P. Texaco – Long Beach, CA: STOP IT® was used on a 20” dia. steel pipe carrying sulfur. They used 6 rolls of 4” x 12’ STOP IT® to seal the leak. *Quote: “Works good.”*

N.G.O. Chemical – Baytown, TX: STOP IT® was needed because they odorize natural gas and their product is very concentrated. Any little leak causes great concern. They used STOP IT® on a 2” dia. black iron pipe carrying mercaptan. The operating pressure was 60 psi and its temperature was ambient. Two rolls of 2”x12’ STOP IT® were used to seal the leak. *Quote: “This is the best ‘quick fix’ for odorant leaks I have ever used, and in gas odorant leaks time is everything.”*

PULP AND PAPER MILLS

Norit Americas, Inc. – Marshall, TX: STOP IT® is used on several different types of pipes, pressures and temperatures on a monthly basis. Steel, copper, stainless, galvanized, black iron, aluminum, PVC and fiberglass are the types of pipes that they have repaired with STOP IT®. Their pressures have ranged from 120 psi to 600 psi and temperatures have been from ambient to 212°F. They have used it on ¼” dia. to 10” dia. pipes that carry water, steam and various chemicals. They have twenty millwrights and all are pleased with the results from STOP IT®. *Quote: “This is an industrial facility & STOP IT® eliminates costly ‘down time’ in many cases.”*

Armstrong Ceiling – Marietta, PA: Have used STOP IT® on several occasions on steel, stainless, galvanized, black iron, PVC and fiberglass pipes. Diameters range from 4” to 10”. Product in line is mostly reclaim water, pressure is up to 650 psi and temperatures up to 175°F. *Quote: “Quick fix to a major problem.”*

METALS & MINERALS

Consolidated Coal – Sesser, IL: STOP IT® was used on a rubber hose that had a hole approximately 3/8” wide x 3” long. The hose was 12” in diameter and carried magnetite and water. Four rolls of 4” x 12’ STOP IT® was used and the application sealed the leak. *Quote: “This pipe was approximately eight feet from the pump and is under a lot of pressure and also moves under pressure. Repairing this hole helped us to keep running coal on our weekly start up.”*

Martin Mareitta – Manistee, MI: STOP IT® helps make temporary repairs in pipes to keep production running until replacement parts can be made up and downtime scheduled. They use STOP IT® on steel, stainless, galvanized, PVC and fiberglass with diameters ranging from 1” to 10”. The pipes carry MGO slurry’s and brine and operate up to 50 psi and up to 150° F. *Quote: “It’s simple and fast. We are a round the clock operation.”*



STOP IT® CASE HISTORIES (con't)

POWER GENERATION

Boston Edison – Boston, MA: STOP IT® is used to repair cracks on lead covered cable which leaks oil. Diameters range from 1"-4" and the cables carry electricity @ 5, 13.8 and 25 KVA. They use two or three rolls of 2"x4' STOP IT® for each application. *Quote: "Very good product. Sets up well, smooths out perfect, sealed crack good."*

Florida Power & Light Co. – Parrish, FL: Use STOP IT® on steel and fiberglass pipes ranging from 8" – 10" dia. and carrying ash and water. Operating pressure is 60 psi and temperature is ambient. Typically use seven rolls of 4"x12' STOP IT® to seal leak. *Quote: "The product works very well, it is very easy to use and is very effective on any size pipe. It works well on different types of pipe also. Hats off to your product."*

COMMERCIAL MARINE

Keystone Shipping – Tampa, FL: Have used STOP IT® on a variety of applications including steel, copper, galvanized and black iron piping ranging from ½" dia. to 14" dia. Pressures have ranged from 10 psi to 135 psi and product carried in line has been steam, water and petroleum. *Quote: "STOP IT® works great. We use it on cargo piping, saltwater piping and steam piping. We have used it since 1992."*

Apex Marine Corp. – Hammonton, NJ: Used STOP IT® on a steel pipe carrying inert gas @ 3% Oxygen. The line could not be welded because of the gas and not requiring a stainless steel band clamp for inert gas line perforation. The pipe diameter was 6" with a pressure of 2.5 psi, and temperature 10°F above sea water temperature. *Quote: "This product is enormously handy here. Due to our service, age and cargoes (Gasoline, Jet A, etc.), it allows quick, safe, long term if necessary, temporary repairs."*

BUILDING MAINTENANCE & PLUMBING

Salisbury State University – Salisbury, MD: Used STOP IT® to repair a leaking joint in a 2" dia. copper pipe carrying domestic water. The operating pressure was 40 psi and the temperature was 120°F. They used three rolls of 2" x 4' STOP IT® to fix the leak. *Quote: "I've never had much faith in 'patch it' type repairs, but to avoid long down times at our dorms we tried your product with success. We have used this product five or six times and saved hours in down times. Thanks".*

Bay Plumbing – Bay St. Louis, MS: Used STOP IT® to repair a 4" crack in a 6" cast iron pipe that was four feet underground. The operating pressure was 60 psi. They used two rolls of 4" x 12' STOP IT® to fix the leak. *Quote: "The STOP IT® tape worked far beyond my expectations".*

POOL & SPA

Mr. Water – Hastings, NE: Used STOP IT® to repair a spa hose. The operating pressure ranged from 10 to 70 psi and the temperature was 104°F. They used one roll of 2" x 12' to repair and reinforce the area. *Quote: "The 2" tubing going into a 90°, hooked to the pressure side of the pump, became separated from the glue. We took the FIX STIX™ and applied it around the 90° and the 2" tubing and then applied our STOP IT® fiberglass tape. It worked exceptionally well!"*



STOP IT® PIPE REPAIR SYSTEM

Chemical Compatibility Guide for FIX STIX™ ***

*** Note: The chemical compatibility table listed below is to serve only as a reference guide and is based on data obtained from an independent source. It does not represent actual testing performed by InduMar Products, Inc. and should not be interpreted as a warranty, expressed or implied, as to the suitability or compatibility of FIX STIX™ in contact with the listed substances. Before using, the user shall determine the suitability of the product for its intended use and user assumes all risk and liability, whatsoever in connection therewith. No warranty is expressed or implied regarding the accuracy of the data, suitability or the results from use thereof.

Resistance—Chemical Effect

- 1 – Excellent
- 2 – Good
- 3 – Fair
- 4 – Not recommended

Superscript Detail

- ^A Satisfactory to 72 °F (22.2 °C)
- ^B Satisfactory to 120°F (48.8 °C)

Acetaldehyde	1	Barium Nitrate	1 ^A	Copper Sulfate 5%	1 ^A	Hydrochloric Acid, Dry Gas	1
Acetamide	1	Barium Sulfate	3 ^A	Copper Sulfate >5%	1 ^A	Hydrochloric Acid 20%	2 ^A
Acetate Solvent	1	Barium Sulfide	2 ^A	Cream	1	Hydrochloric Acid 37%	1
Acetic Acid; Glacial	2 ^B	Beer	1 ^A	Cresols	1 ^A	Hydrocyanic Acid	1
Acetic Acid 20%	1	Beet Sugar Liquids	1 ^A	Cresylic Acid	1 ^A	Hydrofluoric Acid 20%	1
Acetic Acid 80%	3	Benzaldehyde	1 ^A	Cyanic Acid	1 ^A	Hydrofluoric Acid 50%	3 ^B
Acetic Acid	3	Benzoic Acid	1 ^A	Cyclohexane	1 ^A	Hydrofluoric Acid 75%	2 ^A
Acetic Anhydride	1	Benzol	1 ^A	Detergents	1 ^A	Hydrofluosilicic Acid 20%	3 ^A
Acetone	4	Borax (Sodium Borate)	1 ^A	Dichlorethane	2 ^B	Hydrofluosilicic Acid 100%	3 ^A
Acetyl Chloride (Dry)	1	Boric Acid	1 ^A	Diesel Fuel	1 ^A	Hydrogen Peroxide 10%	3 ^A
Acetylene	1	Brewery Slop	1	Dyes	1	Hydrogen Peroxide 30%	2
Acrylonitrile	1	Bromine	4	Diethylene Glycol	3	Hydrogen Peroxide 100%	1
Alcohols Amyl	4	Butadiene	1 ^A	Diphenyl Oxide	1	Hydrogen Sulfide (Aqua)	1
Benzyl	1 ^A	Butane	1 ^A	Dyes	1	Hydrogen Sulfide (Dry)	1
Butyl	1	Butanol (Butyl Alcohol)	4	Epsom Salts (Magnesium Sulfate)	1	Hydroxyacetic Acid 70%	1
Diacetone	1	Butter	1	Ethane	1 ^A	ink	1
Ethyl	1 ^B	Buttermilk	1 ^A	Ethanolamine	1 ^A	Iodine	3
Hexyl	1	Butylene	1 ^A	Ether	1 ^A	Isotane	1
Isobutyl	1	Butylacetate	2 ^A	Ethyl Acetate	3 ^A	Isopropyl Acetate	1
Isopropyl	1	Butaric Acid	3 ^A	Ethyl Chloride	1 ^A	Isopropyl Ether	4
Methyl	2 ^A	Calcium Bisulfate	1	Ethyl Sulfate	1 ^A	Jet Fuel (JP3,-4,-5)	1
Octyl	1	Calcium Bisulfide	1	Ethylene Chloride	2 ^A	Kerosene	1
Propyl	1	Calcium Bisulfite	1 ^A	Ethylene Dichloride	3 ^A	Ketones	3
Aluminum Chloride 20%	1 ^A	Calcium Carbonate	1 ^A	Ethylene Glycol	3 ^A	Lacquers	1
Aluminum Chloride	1 ^A	Calcium Chloride	1 ^A	Ethylene Oxide	1 ^A	Lacquer Thinners	1
Aluminum Fluoride	2 ^A	Calcium Hydroxide	1 ^A	Fatty Acids	1 ^A	Lactic Acid	2 ^A
Aluminum Hydroxide	2 ^A	Calcium Hypochlorite	1 ^A	Ferric Chloride	1 ^A	Lard	2
Aluminum Potassium Sulfate 10%	1 ^A	Calcium Sulfate	1 ^A	Ferric Sulfate	1 ^A	Latex	1
Aluminum Potassium Sulfate 100%	1 ^A	Calgon	1	Ferrous Chloride	1 ^A	Lead Acetate	1
Aluminum Sulfate	1 ^A	Cane Juice	1	Ferrous Sulfate	1 ^A	Lead Sulfamate	1
Amines	1 ^A	Carbolic Acid (See Phenol)	3 ^A	Fluoboric Acid	1	Ligroin	1
Ammonia 10%	1 ^A	Carbon Bisulfide	1	Fluorine	4	Lime	1
Ammonia, Anhydrous	1	Carbon Dioxide	1 ^A	Fluosilicic Acid	3	Lubricants	1
Ammonia, Liquid	1 ^A	Carbon Dioxide (Dry)	1 ^A	Formaldehyde 40%	1 ^A	Magnesium Carbonate	1
Ammonia Nitrate	1	Carbon Dioxide (Wet)	1 ^A	Formaldehyde 100%	1	Magnesium Chloride	1
Ammonium Bifluoride	1 ^A	Carbon Disulfide	3 ^A	Formic Acid	3 ^A	Magnesium Hydroxide	1
Ammonium Carbonate	1 ^A	Carbon Monoxide	1 ^A	Freon 11	1	Magnesium Nitrate	1
Ammonium Casenite	1	Carbon Tetrachloride	1 ^A	Freon 12	1	Magnesium Oxide	1
Ammonium Chloride	1 ^A	Carbonated Water	1	Freon 22	1	Magnesium Sulfate	1
Ammonium Hydroxide	1 ^A	Carbonic Acid	2 ^A	Freon 113	1	Maleic Acid	1
Ammonium Nitrate	1 ^A	Catsup	1	Freon TF	1	Maleic Anhydride	1
Ammonium Oxalate	1	Chloroacetic Acid	3 ^A	Fruit Juice	1	Mash	1
Ammonium Persulfate	1 ^A	Chlorinated Glue	1	Fuel Oils	1 ^A	Mayonnaise	1
Ammonium Phosphate, Dibasic	1 ^A	Chlorine, Anhydrous Liquid	3 ^A	Furan Resin	1 ^A	Melamine	1
Ammonium Phosphate, Monobasic	1	Chlorine Water	1 ^A	Furfural	1 ^A	Mercuric Chloride (Dilute)	1
Ammonium Phosphate, Tribasic	1	Chlorobenzene (Mono)	3 ^B	Gasoline	1	Mercuric Cyanide	1
Ammonium Sulfate	1 ^A	Chloroform	3 ^A	Gelatin	2	Mercury	1
Ammonium Thiosulfate	1	Chlorosulfonic Acid	3 ^A	Glucose	2	Methanol (Methyl Alcohol)	2 ^A
Amyl Acetate	1 ^A	Chocolate Syrup	1	Glue, P.V.A.	1	Methyl Acetate	4
Amyl Alcohol	4	Chromic Acid 5%	2 ^A	Glycerin	1	Methyl Acrylate	1
Amyl Chloride	1 ^A	Chromic Acid 10%	3 ^A	Glycolic Acid	1	Methyl Acetone	3
Aniline	3 ^A	Chromic Acid 30%	3 ^A	Gold Monocyanide	1	Methyl Alcohol 10%	2 ^A

Anti-Freeze	1	Chromic Acid 50%	4	Grape Juice	1	Methyl Bromide	2
Aqua Regia (80% HCl, 20% HNO ₃)	4	Cider	1	Grease	1	Methyl Butyl Ketone	3
Arochlor 1248	1 ^A	Citric Acid	1 ^A	Heptane	1	Methyl Cellosolve	3
Aromatic Hydrocarbons	1	Citric Oils	1	Hexane	2	Methyl Dichloride	1
Arsenic Acid	1 ^A	Clorox (Bleach)	1	Honey	1	Methyl Ethyl Ketone	3 ^A
Asphalt	1	Coffee	1	Hydraulic Oil (Petro)	1	Methyl Isobutyl Ketone	3
Barium Carbonate	1 ^A	Copper Chloride	1	Hydraulic Oil (Synthetic)	1	Methyl Isopropyl Ketone	3
Barium Chloride	1 ^A	Copper Cyanide	2 ^A	Hydrazine	1	Methyl Methacrylate	1
Barium Cyanide	1	Copper Fluoborate	1	Hydrobromic Acid 20%	2 ^A	Methylamine	1
Barium Hydroxide	1 ^A	Copper Nitrate	1 ^A	Hydrobromic Acid 100%	4	Methylene Chloride	1
Milk	1	Phosphoric Acid (<40%)	1	Acid Fluoborate Bath R.T.	1	Sodium Sulfate	1
Molasses	1	Phosphoric Acid (>40%)	2	Alkaline Cyanide Bath R.T.	1	Sodium Sulfide	1
Mustard	1	Phosphoric Acid (Crude)	2	Potash	1	Sodium Sulfite	1
Naphtha	1	Photographic Developer	1	Potassium Bicarbonate	1	Sodium Tetraborate	1
Naphthalene	1	Picric Acid	1	Potassium Bromide	1	Sodium Thiosulfate (Hypo)	1
Nickel Chloride	1	Plating Solutions		Potassium Carbonate	1	Sorghum	1
Nickel Sulfate	1	Antimony Plating 130°F	2	Potassium Chlorate	1	Soy Sauce	1
Nitrating Acid (>15% H ₂ SO ₄)	4	Arsenic Plating 110°F	2	Potassium Chloride	1	Stannic Chloride	1
Nitric Acid (5-10%)	1 ^A	Brass Plating:		Potassium Chromate	3	Stannic Fluoborate	1
Nitric Acid (20%)	2 ^A	CU-CD Bronze Bath R.T.	2	Potassium Cyanide Solutions	1	Stannous Chloride	1
Nitric Acid (50%)	4	CU-SN Bronze Bath 160°F	3	Potassium Dichromate	3	Starch	1
Nitric Acid (Concentrated)	4	CU-ZN Bronze Bath 100°F	2	Potassium Ferrocyanide	1	Stearic Acid	2
Nitrobenzene	3 ^A	Cadmium Plating:		Potassium Hydroxide (Caustic Potash)	1	Stoddard Solvent	1
Oils: Aniline	1	Cyanide Bath 90°F	2	Potassium Nitrate	1	Styrene	1
Anise	1	Fluoborate Bath 130°F	2	Potassium Permanganate	1	Sugar (Liquids)	1
Bay	1	Chromium Plating:		Potassium Sulfate	1	Sulfate (Liquors)	1
Bone	1	Chromic-Sulfuric Bath 130°F	3	Propane (Liquified)	1	Sulfur Chloride	3
Castor	1	Fluosilicate Bath 95°F	3	Propylene Glycol	3	Sulfur Dioxide (Dry)	1 ^A
Cinnamon	1	Fluoride Bath 130°F	3	Pyridine	1	Sulfur Trioxide (Dry)	1
Citric	1	Black Chrome Bath 115°F	3	Pyrogallic Acid	1	Sulfuric Acid (<10%)	1 ^A
Clove	1	Barrel Chrome Bath 95°F	3	Rosins	1	Sulfuric Acid (10-75%)	3 ^A
Cocoa Nut	1	Copper Plating (Cyanide):		Rum	1	Sulfuric Acid (75-100%)	1 ^A
Cod Liver	1	Copper Strike Bath 120°F	2	Rust Inhibitors	1	Sulfuric Acid (Hot conc)	4
Corn	1	Rochelle Salt Bath 150°F	3	Salad Dressings	1	Sulfuric Acid (Cold conc)	4
Cotton Seed	1 ^A	High Speed Bath 180°F	3	Sea Water	1	Sulfurous Acid	1
Creosote	1 ^A	Copper Plating (Acid):		Shellac (Bleached)	1	Sulfuryl Chloride	1
Diesel Fuel (20, 30, 40, 50)	1 ^A	Copper Sulfate Bath R.T.	4	Shellac (Orange)	1	Tallow	1
Fuel (1,2,3,5A, 5B, 6)	1 ^A	Copper Fluoborate Bath 120°F	4	Silicone	1	Tannic Acid	1
Ginger	1	Copper Plating (Misc.)		Silver-Bromide	1	Tanning Liquors	1
Hydraulic (See Hydraulic)		Copper Pyrophosphate	2	Silver Nitrate	1	Tartaric Acid	1
Lemon	1	Copper (Electroless)	2	Soap Solutions	1	Tetrachloroethane	1
Linseed	1	Gold Plating:		Soda Ash (See Sodium Carbonate)		Tetrahydrofuran	1
Mineral	1	Cyanide 150°F	4	Sodium Acetate	1	Toluene (Toluol)	2 ^A
Olive	1	Neutral 75°F	1	Sodium Aluminate	1	Tomato Juice	1
Orange	1	Acid 75°F	1	Sodium Bicarbonate	1	Trichloroethane	1
Palm	1	Indium Sulfamate Plating R.T.	1	Sodium Bisulfate	1	Trichloroethylene	3 ^A
Peanut	1	Iron Plating:		Sodium Bisulfite	1	Trichloropropane	1
Peppermint	1	Ferrous Chloride Bath 190°F	4	Sodium Borate	1	Tricresylphosphate	1
Pine	1	Ferrous Sulfate Bath 150°F	4	Sodium Carbonate	3 ^A	Triethylamine	1
Rapeseed	1	Ferrous AM Sulfate Bath 150°F	4	Sodium Chlorate	1	Turpentine	2
Rosin	1	Sulfate Chloride Bath 160°F	4	Sodium Chloride	1	Urine	1
Sesame Seed	1	Fluoborate Bath 145°F	4	Sodium Chromate	3	Varnish	1
Silicone	1	Sulfamate 140°F	1	Sodium Cyanide	1	Vegetable Juice	1
Soybean	1	Lead Fluoborate Plating	1	Sodium Fluoride	1	Vinegar	1
Sperm	1	Nickel Plating:		Sodium Hydroxide (20%)	1 ^B	Water, Acid, Mine	1
Tanning	1	Watts Type 115-160°F	4	Sodium Hydroxide (50%)	2 ^B	Water, Distilled	1
Turbine	1	High Chloride 130-160°F	4	Sodium Hydroxide (80%)	1 ^A	Water, Fresh	1
Oleic Acid	1	Fluoborate 100-170°F	1	Sodium Hypochlorite (<20%)	3	Water, Salt	1
Oleum 25%	4	Sulfamate 100-140°F	1	Sodium Hypochlorite (100%)	4	Weed Killers	1
Oleum 100%	4	Electroless 200°F	2	Sodium Hyposulfate	3	Whey	1
Oxalic Acid (Cold)	1	Rhodium Plating 120°F	1	Sodium Metaphosphate	1	Whiskey and wines	2
Paraffin	1	Silver Plating 80-120°F	1	Sodium Metasilicate	1	White Liquor (Pulp mill)	1
Pentane	1	Tin-Fluoborate Plating 100°F	1	Sodium Nitrate	1	White Water (Paper mill)	1
Perchloroethylene	4	Tin-Lead Plating 100°F	1	Sodium Perborate	2	Xylene	1
Petrolatum	1	Zinc Plating:		Sodium Peroxide	3	Zinc Chloride	1
Phenol (10%)	3	Acid Chloride 140°F	1	Sodium Polyphosphate	1	Zinc Hydrosulfite	1
Phenol (Carbolic Acid)	3	Acid Sulfate Bath 150°F	4	Sodium Silicate	1	Zinc Sulfate	1

MATERIALS HEALTH, SAFETY AND ENVIRONMENTAL SHEET
RESIN COATED, KNITTED FIBERGLASS, WATER ACTIVATED REPAIR TAPE
 Prepared 07/14/08



**PIPE
REPAIR TAPE**

NFPA PLACARD CODE HMIS CODE		
Health	2	Moderate
Fire	1	Slight
Reactivity	1	Slight

INGREDIENTS	CAS NO.	PERCENT	EXPOSURE LIMITS
Fiber Glass	65997-17-3	48-52	
4,4' - Diphenylmethane diisocyanate Other MDI isomers and oligomers	101-68-8	34-38	8-hour time weighted average (TWA) 0.005
Amine catalyst	6425-39-4	1-5	
Methanesulfonic acid	75-75-2	<1	
Ingredients not precisely identified (including Polyethylene glycols) are proprietary and non-hazardous.		<12	

SOURCE OF EXPOSURE LIMIT DATA--ACGIH (American Conference of Governmental Industrial Hygienists)
 THRESHOLD LIMIT VALUES ABBREVIATIONS: N/A - NOT APPLICABLE

Product Name: STOP IT® Repair Tape For Further Information Contact: Telephone Number (713) 977-4100	Producer's Name: InduMar Products, Inc. Address: 3355 West Alabama, Suite 110 Houston, Texas 77098 Office: (713) 977-4100
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PHYSICAL STATE: Tacky Resin on a Fiberglass Substrate ODOR: Very Slight FLASH POINT: 440° F./227° C. Flash Back DOES NOT OCCUR. Recommended Extinguishing Media: CO ₂ , dry chemical or foam	COLOR: White/Yellowish, also Black (uncured product) Method: Closed Cup No Unusual Fire or Explosion Hazards. Decomposition/Combustion Products: Carbon dioxide, carbon monoxide and traces of oxides of nitrogen
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Hazardous Polymerization WILL NOT OCCUR. Product will not violently react with air or water.
 Toxic Products will not form. Product is stable, not a hazardous waste.
 Recommended storage conditions: Optimum 40-80° F./4-27° C.

RECOMMENDED WASTE DISPOSAL METHOD: Solid waste landfill or authorized incineration.

PERSONAL PROTECTION: Apply in well ventilated area. Protective clothing for normal application: Latex or plastic gloves. Eye protection for normal application: Safety glasses. Special fire fighting procedures: Wear self-contained breathing apparatus. STOP IT® polyurethane resin will adhere to clothing. STOP IT® polyurethane resin will not cause skin bond.

NOT FOR INTERNAL CONSUMPTION. KEEP AWAY FROM CHILDREN.

HEALTH DATA SHORT TERM EXPOSURE

Route Of Entry	Description of Effect	Minimum Concentration For Effect
Inhalation	No significant inhalation hazard upon removal of cured material. Isocyanate vapors of uncured material below detectable limits.	N/A
Skin	Contact: Modified human draize patch test: Product is neither an irritant nor an allergen. Absorption: Acute dermal LD50 >2.0g./kg., no reaction at this dose. Cured and uncured products are not expected to be sensitizing when used as directed.	N/A
Eyes	Avoid contact; uncured material is not expected to be an irritant when used as directed.	N/A
Ingestion	Oral LD50>5g./kg.; no mortalities, or untoward behavior reactions were noted.	N/A

LONG TERM EFFECTS: May be Slightly irritating to unprotected skin.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Provide fresh air, if breathing becomes difficult, call a physician.

Skin: Wash thoroughly with soap and water.

Eyes: Wash immediately with plenty of water and consult a physician.

Ingestion: Unlikely route. Drink plenty of water. Do not induce vomiting.

Consult a nurse or physician. (Keep out of reach of children).

IMPORTANT NOTICE TO PURCHASER: All statements, technical information, and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with "Terms and Conditions of Sale" and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his/her intended use and assumes all risks and liability whatsoever in connection therewith.



MATERIAL SAFETY DATA SHEET

Preparation Date: 07/14/08



SECTION I – PRODUCT AND COMPANY INFORMATION

Product Name: Fix Stix™
 CAS Number: Mixture
 Hazard Rating: Health: 1 Fire: 1 Reactivity: 0 PPI: B

Company Identification: InduMar Products, Inc.
 3355 West Alabama Suite 110
 Houston, TX 77098

Telephone/Fax: 713-977-4100/713-977-4164
 Toll Free: 800-523-7867
 Product Class: EPOXY PUTTY
 Trade Name: Fix Stix™
 Product Code: 38746
 Shipping Name: PUTTY, NMFC 150110

SECTION II – INGREDIENT AND HAZARD INFORMATION

Ingredient Name: Glycidyl ethers of Bisphenol A resins Tri(dimethylaminomethyl)phenol

CAS Number: 25068-38-6 10 - 30 Y HMIS Health: 2 Fire: 1 Reactivity: 0 PPI:B
 Percent TSCA: 90-72-2 0.5-1.5 Y HMIS Health: 3 Fire: 1 Reactivity: 1 PPI:D

***ALL ingredients in this product are listed in the T.S.C.A. Inventory

SECTION III – PHYSICAL DATA

Form: Putty
 Appearance/Color: Metallic/Black
 Odor: Mercaptan/Sulfur
 Solubility (in water): Insoluble in Water
 PH Value: Not Applicable
 Boiling Range: Not Applicable
 Vapor Pressure (mmHg): Not Applicable
 Melting Point: Not Applicable
 Evaporation Rate: Non Volatile
 Vapor Density: Non Volatile
 % Volatile Weight: 0. %
 % Volatile: < 1 %
 VOC: < 1.0 %
 Heavy Elements (ppm) 0.
 Specific Gravity: 1.9

Note: The physical data represented above are typical values and should not be construed as a specification. For additional physical data and details on use, please obtain a technical data sheet for this product.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flammability Class: none
 Flash Range: none
 Explosive Range: none

Extinguishing Media: Water spray, foam, CO2, dry chemicals.

Unusual Hazards: Aldehydes, acids, and oxides of carbon, nitrogen, and sulfur.

Fire Fighting: Anyone who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self contained breathing apparatus (SCBA) and full protective clothing.

SECTION V – HEALTH HAZARD DATA

	Route	Species	Exposure and Dose
Glycidyl ethers of bisphenol A resins	Oral	Rat, adult	LD50 5000, mg/Kg
Tri(dimethylaminomethyl)phenol	Skin	Rabbit, adult	LD50 20000, mg/Kg
	Oral	Rat, adult	LD50 1630, mg/Kg

Permissible Exposure Level: Not Evaluated

EFFECTS OF OVEREXPOSURE:

Inhalation: None
 Ingestion: Possible irritation of intestinal tract.
 Skin Contact: Possible irritant and sensitizer.
 Eye Contact: Possible irritant and sensitizer.

FIRST AID:

Inhalation: Remove to fresh air.
 Ingestion: Seek medical advice.
 Skin Contact: Wash with plenty of soap and water.
 Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.
NOTE: Never give anything by mouth to an unconscious person.

SECTION VI – STABILITY AND REACTIVITY DATA

Stability: This product is stable
 Hazardous Polytherization: Hazardous polymerization will not occur
 Incompatibility: None
 Conditions to Avoid: None
 Hazardous Decomposition Products: Aldehydes, acids, and oxides of carbon, nitrogen, and sulfur.



MATERIAL SAFETY DATA SHEET

Preparation Date: 07/14/08



SECTION VI – STABILITY AND REACTIVITY DATA

Stability: This product is stable
 Hazardous Polymerization: Hazardous polymerization will not occur
 Incompatibility: None
 Conditions to Avoid: None
 Hazardous Decomposition Products: Aldehydes, acids, and oxides of carbon, nitrogen, and sulfur.

SECTION VII – SPILL AND LEAK PROCEDURES

Cured Material: Dispose of in normal manner.
 Waste Disposal Method: Incinerate in furnace or bury in landfill in accordance with all applicable regulations; not a hazardous waste.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Glycidyl ethers of bisphenol A resins	N/est *	N/est	N/est	N/est	N/est
Tri(dimethylaminomethyl)phenol	N/est	N/est	N/est	N/est	N/est

PROTECTIVE EQUIPMENT TYPES:

Eyes: Safety glasses or goggles.
 Respiratory: None required unless sanding or abrading.
 Gloves: Appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.
 Other: None required.

VENTILATION:

General Mechanical: None required.
 Local Exhaust: Only if heated above 100°F (38°C)

SECTION IX – HANDLING AND STORAGE

Storage Temperature: < 90°F (32°C)
 Storage Conditions: Store in cool, dry, well ventilated area.
 Transfer: No special precautions are needed.
 Follow good manufacturing and handling practices.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking and using restroom facilities. Wash contaminated goggles, face shield, and gloves.
 Professionally launder contaminated clothing before re-use.

Empty container precautions: This container can be hazardous when empty. Follow label cautions even after the container is empty since empty containers could retain product residues. Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur.

SECTION X – REGULATORY INFORMATION

RIGHT-TO-KNOW: The non-hazardous ingredients in the product subject to the Pennsylvania, New Jersey, and/or Massachusetts Right-to-Know laws are:

CAS	Chemical Name
14807-96-6	Magnesium Silicate Hydrate
Trade Secret	Polyether Polymercaptan
65997-17-3	Sodium Calcium Magnesium Silicate
37244-96-5	Nepheline Syenite

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health hazard and safety information herein should be passed on to your customers or employees as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.



Pipe Repair System

Product Selection Guide

**STOP IT® is produced in four sizes:
2" x 4', 2" x 12', 4" x 12' and 4" x 25'**

**Find pipe diameter and line pressure to determine number
and size of kits to apply.**

Nominal Pipe Diameter	50 PSI (10 Plys)	150 PSI (15 Plys)	400 PSI (20+ Plys)
1/2"	1 (2X4)	1 (2X4)	1 (2X4)
3/4"	1 (2X4)	1 (2X4)	1 (2X4)
1"	1 (2X4)	1 (2X4)	2 (2X4)
1-1/4"	1 (2X4)	2 (2X4)	3 (2X4)
1-1/2"	2 (2X4)	2 (2X4)	1 (2X12)
2"	1 (2X12)	1 (2X12)	1 (2X12)
2-1/2"	1 (2X12)	1 (2X12)	2 (4X12)
3"	1 (2X12)	2 (4X12)	2 (4X12)
3-1/2"	1 (2X12)	2 (4X12)	2 (4X12)
4"	1 (2X12)	2 (4X12)	3 (4X12)
5"	2 (4X12)	2 (4X12)	3 (4X12)
6"	2 (4X12)	2 (4X12)	4 (4X12)
8"	1 (4X25)	2 (4X25)	2 (4X25)
10"	1 (4X25)	2 (4X25)	2 (4X25)
12"	2 (4X25)	2 (4X25)	3 (4X25)
14"	2 (4X25)	3 (4X25)	3 (4X25)
16"	2 (4X25)	3 (4X25)	4 (4X25)
18"	2 (4X25)	3 (4X25)	4 (4X25)
>18" larger diameter pipe	For all diameters over 18" contact InduMar for detailed application instructions @ www.indumar.com <small>© Indumar Products, Inc. 2006</small>		

Note: These are suggestions only. This is a hand-applied product and results may vary depending on the expertise of the applicator. Always apply the entire roll. This information is presented in nominal sizes and actual diameters may vary with the type of pipe and thickness of fittings. Fitting repair may require additional product. For fittings, use the next larger pipe size as a guide.

