

Leaks Happen

... Are You Ready?

Actual incident on Hwy 113 off ramp @ I-80 in Davis, CA near Sacramento. U.C. Davis Fire Dept. used our Football plug to stop the fuel leak. Truck was able to continue to repair shop without having to transfer remaining fuel from tank.

Edwards and Cromwell Spill Control

11519 Investor Ave., Baton Rouge, LA 70809

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www.edwardsandcromwell.com

FIRST ON SCENE



PLUG KIT F-1

For all first responders who are first on an accident scene, the Kit F-1 has what you need to stop a leak fast. Designed primarily for fuel leaks, this kit contains simple proven items such as wooden plugs with rubber mallet, four sticks of epoxy repair putty, five all-purpose absorbent pads, a can of Plug N Dike, one of our football plugs, and two of our golf ball plugs. All come in a handy kit, compact enough to fit on every engine in your department, or staged near fuel storage tanks in plants, airports, etc...



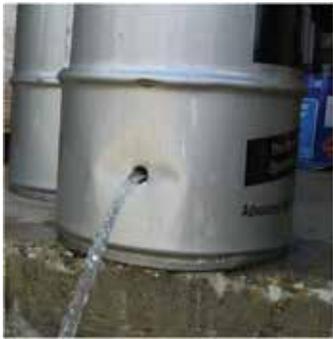
Don't get caught out there without the F-1!



Golfball successfully plugged these two leaks.



Multiple Footballs/Golfballs can be used in combination depending on size of hole.



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LOOK FAMILIAR?

A forklift bumps into a tank.
Would you be prepared?



Make repairs quickly with Edwards and Cromwell's full line of leak plugging equipment.

At last a functional collection of the most proven and commonly used components for emergency hazardous materials due to punctures, gashes, cracks or surface rotting in most of the common containers - drums, cans, tank trucks and cars, automobile gasoline tanks and storage tanks.

***CAUTION:** These kits are designed for use only by experienced and trained personnel and only for temporary control until the container can be disposed of properly. Proper protective clothing must be worn at all times.

For over forty years, safety of the user has always been top priority at Edwards and Cromwell Spill Control. All of our products are tested extensively at numerous fire and hazardous material response training grounds before marketing.



UNIVERSAL SERIES

Universal type kits cover small to medium holes in any type low pressure vessel. Covers pin, convex, concave and flat surface holes of all shapes. Covers cracks, hairline cracks and much more! Kits feature screw and "T" patches, ball and taper surface plugs, epoxy putty, barrier tape, wood wedges and all necessary tools and hardware.



Series "AE": Our most advanced leak control kit. This kit employs our quick application with twin "T" patch and our proven ladder patch design for your average forklift type punctures. Kit also contains various plugs and patches for smaller holes, and all necessary tools and hardware.



Series "D": Our drum repair kit; a smaller kit that contains components to repair punctures, cracks, gashes or surface rotting of containers which allow liquid or bulk hazardous material to leak.



Series "A-2": This kit contains three oversized surface plugs. These plugs will temporarily control puncture holes from 3" diameter to 3" x 9" tears. They can be purchased individually or as a kit in a handy carrying case as pictured.



Our Universal Kits are available with non-sparking tools. Just add "NS" to the kit part number.

OUR UNIVERSAL KIT “AE” CONTAINS:



Stainless steel sheet metal screws with neoprene compression seals are used for small holes or pin-holes, and are especially good for automobile gasoline tanks. Fix Stix epoxy putty secures permanently; hardening like steel.



Plug-N-Dike's Plug Pattie included in all universal kits. Hot or cold hose repair tape controls pin-hole leaks on any clean surface.



OSHA approved 200' roll of barricade tape to be used in the hazardous area. Bright yellow with black writing signals warning to your personnel and to bystanders surrounding the area of accidental chemical leaks. Extra 8" x 12" solid neoprene and 20" x 20" foam material to be used where needed.



Basic tools necessary for working with patches are included with each kit. No need to run for another tool box.
*Non-sparking tools are available.
Just add: "NS"



Twin "T" design allows for maximum control with stiff stainless plate and neoprene 3/4" soft closed cell foam. Quick application with own pre-assembled wing nut/flat fender washer combos and 3 stainless steel "T" bolts.



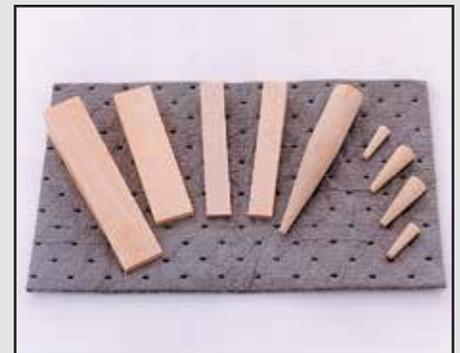
8" x 12" stainless-backed neoprene patch with hardwood cribbing is secured with (2) 22' heavy duty nylon straps and ratcheting buckles, allowing for even pressure to be applied to entire area of patch.



The "T" bolt crack patches are structured for elongated skin breaks or awkward-shaped gashes. The wide surfaces areas are faced with a generous 1/4" thick neoprene pad. The "T" bolts, as well as the stiff, curved back up plates, are all stainless steel.



Six assorted surface plugs are used for flat, slightly curved surfaces. The ball plugs are designed to stop a leak in deeply indented or concave surface where a flat patch would fail.



The wooden plugs included in the kit are wedged and pre-shaped. These standard plugs can be covered with a sorbent pad and jammed into a leak; the wood and pad expand together to fill the hole.

WHAT ABOUT LEAKING PIPES?

Now you can control a leaking pipe without sealing off a community!
Hazardous Material Response Kit "C-1": The Pipe Plugger.

NOW... ALL IN ONE!

A pipe-plugging kit that allows hazardous materials to be piped off (under a regulated flow) to an alternate location.



Convenient Take Along Kit

Now one conveniently-designed kit prepares you to react quickly and effectively when hazardous materials escape from pipes. In its carrying case, Response Kit "C-1" contains: vented pipe plugs for 1'-4" pipe diameters, non-vented plugs for all other sizes, and tools for easy installation.

Fast and Easy to Use

No complicated procedures are required and no additional tools are needed to utilize these pipe plugs. Because most hazardous material leaks create a potentially life-threatening or property-threatening situation, an emergency response vehicle is fully equipped without Kit "C-1". Also, by containing a problem before it gets out of hand, your staff can save valuable man-hours that might otherwise be spent in full-scale evacuation of an area.



*Also Available Separately:
 5" "C-1" Plug*

Plug...

- LEAKING GAS METER
- LEAKING TANK TRUNK VALVES
- LEAKING WATER PIPES
- HUNDREDS OF OTHER USES



GET READY

Determine the right size plug. Screw on valve and tubing if you are going to use it on this pipe.



PLUG PIPE, CONTAIN

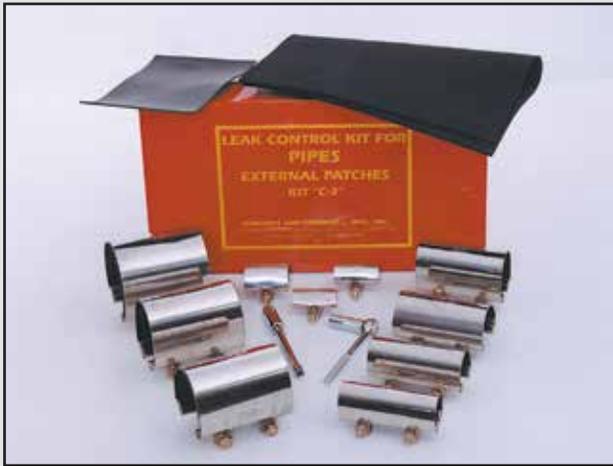
Insert plug and tighten nut. Neoprene expands, eliminating flow.



PIPE

Pipe off to recovery vessel.

MORE SOLUTIONS TO PIPE LEAKS:



SERIES "C-2"



SERIES "C-3"

EXTERNAL PIPE LEAK CONTROL KITS

The kits you need to complete your emergency response arsenal.

Combine this series of kits with a kit from our universal series, one from our pipe plunger series, and our large leak models and your team will have the most complete, most versatile collection of emergency leak control devices the Haz-Mat Industry has ever seen. This series contains a complete set of external pipe bandages covering nominal pipe sizes from 1/2" to 8". Complete with tools (standard or non-sparking) and carrying case makes for ease of handling and usage. Kit "C-2" contains 10 patches covering 1/2" to 4" pipes. Kit "C-3" contains 3 large patches covering 5", 6", and 8" pipes.



Extra hard and soft neoprene rubber is included in these kits for extra help where you may need it.



TYPICAL USES INCLUDE:

- Water Pipes
- Gas Lines
- Air Lines
- Fuel Transfer Pipes
- Sewer Pipes
- All Low Pressure Lines from 1/2" to 8"
- Unlimited uses in municipal departments, chemical plants, manufacturing facilities, hospitals, oil field, water and sewer treatment plants, etc., anywhere a pipe or line is used. This series of kits should be on stand-by for when that inevitable leaking pipe presents itself.



Both kits are also available with non-sparking tools. Just add "NS".

What about large holes in large tanks?



SERIES "F" THE ROLL-OVER KIT

FINALLY...

a kit for large holes that doesn't require wrapping chains or cables around the vessel.

Patch is neoprene face with stainless steel. The "T" bolts are all stainless steel. Extra holes are provided in the patch and support unit to allow for leak puncture holes close to obstruction..

This kit contains: One 13" x 23" patch, one 12" x 22" support frame, four stainless steel "T" bolts, with wing nut combos and sixteen outer conforming bolts.



ASSEMBLE

Simple insert a "T" bolt through patch and attach wing nut/back up plate assembly.



APPLY

Turn "T" bolt to straddle hole.
Run wing nut down and tighten.



CONFORM

Tighten bolts around exterior of patch as needed to conform patch to vessel.

From the Leaders in
Hazardous Material Leak Control:

KIT “WPS”

Wedges, Putty & Stop-it



PLUG N DIKE PLUG RUG

Apply to hole in tank or place over drain. May be overlapped, and are available separately in larger sizes.

Wooden wedges and dowels



PLUG N DIKE

Premixed putty. Simply apply right to hole.



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, it will also work on some small flange leaks.



FIX STIX

Knead until uniform color and apply. Works on cracks and small holes on wet, flat or curved surfaces, and pipes, flanges and T's.

From the Leaders in
Hazardous Material Leak Control:
**OFFSET T PATCH
KIT "A-1"**



Offset T Patches
for holes & cracks
near edge of tank



Taper Surface Plugs
with Offset T-bolts



Ladder Patch
with 3/4" foam
backing instead
of 1/4" hard
rubber



Large Twin T
Patch with
Offset T-bolts

This universal leak control kit has components to repair punctures, cracks, gashes, or surface rotting of all containers, just as our universal kits you may already have. Additionally, this kit will allow you to patch some holes that previously were more difficult, such as cracks close to the edge of tanks or supports, and cracks that toggle wings will not fit into. All necessary tools and hardware are included. Kit A-1 is available with non-sparking tools, just add "NS" to the part number.

What About Explosive Atmospheres?

Non-Sparking • Non-magnetic • Corrosion Resistant • Lifetime Warranty



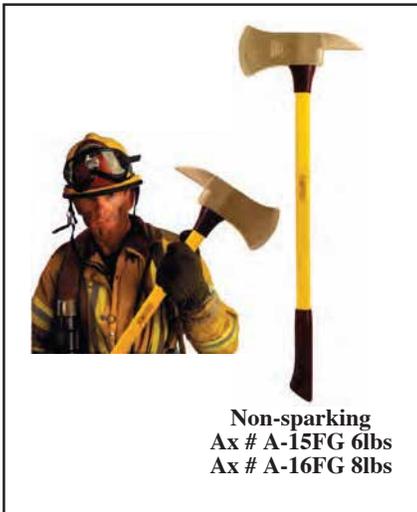
Non-Sparking Tool Kit "G"



HAZ-MAT Bucket "B-1"

- W-3109 Dble End Box Wrench - 5/16" x 3/8"
- W-3120 Dble End Box Wrench - 7/16" x 1/2"
- W-3150 Dble End Box Wrench - 9/16" x 5/8"
- W-3180 Dble End Box Wrench - 3/4" x 7/8"
- S-1099 #2 Phillips Screwdriver
- S-49 Std. Screwdriver - 5/16" Tip, 6" Blade
- W-72 10" Adjustable Wrench
- P-30 6 1/2" Combination Pliers
- P-31 8" Combination Pliers
- P-39 10" Groove Joint Pliers
- K-1 Common Knife 3 1/8" Blade, 6 3/4" OAL
- K-21 .. Putty Knife (Stiff) 1 1/4" x 3 9/16" Blade 7 3/4" OAL
- H-20FG 16oz. Claw Hammer with Fiberglass Handle
- W-212 14" Adjustable Pipe Wrench
- B-399 Shoe Handle Brush
- S-10G Deck Scraper - 2" x 12"

- B-399 Shoe Handle Brush
- CJ-1-ST 9" Crate Opener
- H-20FG 16oz. Claw Hammer with Fiberglass Handle
- K-5 Common Knife, 5 3/4" Blade, 10 3/4" OAL
- K-21 Putty Knife (Stiff) 1 1/4" x 3 9/16" Blade, 7 3/4" OAL
- P-312 12" Groove Joint Pliers
- P-326 7" Long-Nose Pliers with Cutters
- P-31 8" Combination Pliers
- S-11G Deck Scraper 1 1/2" Blade x 15" Long
- S-40 Spray Booth Scraper, 3" Blade, 9 1/4" Long
- S-49 Std Screwdriver - 5/16" Tip, 6" blade
- S-1100 #3 Phillips Screwdriver
- S-1144 12" Tin Snips
- W-71 8" Adjustable Wrench
- W-73 12" Adjustable Wrench
- W-212AL 13" Pipe Wrench (Aluminum)
- W-56L 12" Bung Wrench (Fits 3/4" x 2")



**Non-sparking
Ax # A-15FG 6lbs
Ax # A-16FG 8lbs**



**Drum Bung Wrench
#W-585**

No Haz Mat Team Should Be Without These

Non-sparking Safety Tools provide excellent protection against fires and explosions in environments where flammable solvents, fuels, materials, gases and residues are present. The non-magnetic and corrosion-resistant properties of our tools are well suited for industrial and high technology applications.

Also available separately:

A full line of non-sparking tools such as shovels, pry bars, hammers, etc. These tools are made of aluminum and bronze.

Now Available Plug N' Dike Products



A Bentonite material very useful in controlling leaks on just about anything (low pressure). Pre-mixed putty is applied to something leaking by pushing putty into the hole with the palm of your hand “mushrooming” putty into the hole, helping with adhesion. Continuous monitoring is recommended as a second application is sometimes necessary as head pressure builds inside container after plugging.



Plug N' Dike Pre-mixed
Simply scoop the material out of the container and apply to the hole.

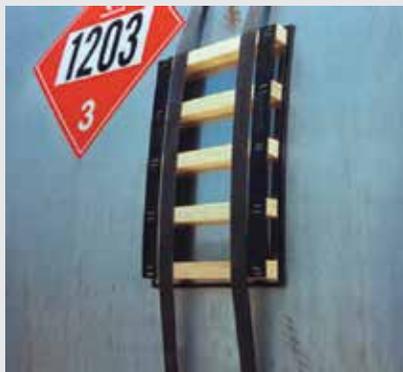


Plug N' Dike Dry Granular
The Dry Granular form is useful for creating a dike around the container, “pooling” the substance, thereby reducing the size of the spill and the subsequent clean up.



Also, **Plug N' Dike** comes pre-mixed in a flat “**Rug**”. You simply unwarp it and apply to the hole or crack. It is very useful for saddle fuel tank ruptures and for putting down over drains to prevent the substance from

Proven in the Field over 40 Years....



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Are you **READY**
for some

FOOTBALL!



Part # SPF FOOTBALL PLUG is a football-shaped, polyurethane impregnated, water activated foam plug used to temporarily stop the flow from a leak in anything from a pipe to a tanker, to a railcar-even a boat! It is initially pliable to insert into a void and quickly expands and hardens to fill the void-it can even be applied below the water line.

NOW AVAILABLE!
1.5" Golf Ball Size
PART # SPG

EASY!

Remove Football from package



Submerge in water for 5 seconds



Apply to hole



Below: Application on Low Pressure Pipe



KIT CONTENTS
Step-by-Step Instructions, Protective Gloves, Football Plug.

BENEFITS: Ready to use. Simple application. Effective, time saving. No mixing, no mess. Sets rock hard in minutes.

TYPICAL APPLICATIONS
Spill containment, marine thru-hull damage.

PROPERTIES Color: Foam-yellow
Urethane-white Cure Time: 2 minutes at 75°F (24°C)
Resin Type: Pre-impregnated
Application Temperature: 32 to 160°F (0 to 71°C)
Size: 3.25" OD x 6"

MADE IN USA





Actual incident Hwy 113 @ I-80 near Sacramento, California. Truck was able to continue to repair show without having to transfer remaining fuel from tank.



Another actual incident. Three Footballs and four Golfballs needed to stop this leak!

TYPICAL URETHANE CHEMICAL RESISTANCE

EXCELLENT RESISTANCE

Ammonium hydroxide, 10% solution
 Ammonium sulfate, 2% solution
 Benzene
 Benzene chloride Butyl acetate
 Brine, saturate
 Brine, 10% solution
 Butanol
 Carbon tetrachloride
 Diesel fuel
 Diisobutylene
 Diisobutylketone
 Gasoline
 Hexane
 Hydrochloric acid, 10% solution
 Hydrogen sulphide, 100% wet
 Isopropanol
 JP-4 Fuel; JP-5 Fuel
 Kerosene
 Linseed Oil
 Mineral spirits
 Motor oil Acetone
 Orthodichlorobenzene
 Potassium chlorate, 5% solution
 Potassium hydroxide, concentrated
 Styrene
 Sulfuric acid, 10% solution
 Toluene
 Trichloromonoflouromethane
 Turentine
 Water
 Xylene

GOOD RESISTANCE

Acetic acid, 2% solution
 Ammonium hydroxide, concentrated
 Anylacetate
 Butyl acetate
 Chlorobenzene
 Ethylene glycol, 100%
 Formaldehyde
 Hydrochloric acid, concentrated
 Trichloroethylene

FAIR RESISTANCE

Ethyl acetate
 Methylene chloride

POOR RESISTANCE

Acetone
 Ethyl Alcohol, Methyl Alcohol

SEVERE SOLVENT

Sulfuric acid, concentrated
 Nitric acid, concentrate

PROCEDURES TO BE TAKEN IN HANDLING AND STORAGE:

For ideal shelf life, store Syntho-Plug in a cool, shaded area at 72°F (23°C). Do not expose to temperatures above 110°F (44°C) or below 40°F (5°C). Care must be taken when handling SYNtho-Plugs hermetically sealed foil pouch to prevent puncturing or scuffing. If the protective foil pouch is punctured, the Syntho-Plug will be exposed to atmospheric moisture which will cause it to cure within the foil bag. STORE IN A COOL, SHADED AND DRY AREA.

PRECAUTION:

The resin used in Syntho-Plug will adhere to skin and 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 and eyes. Swabbing lightly with alcohol or acetone will help remove resin from skin (prior to set). If eyes are exposed to the resin, flush eyes with water 15 minutes and then contact physician.

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