

polywater.com



olwater

We help companies in the electrical and communications industries solve specific, fieldbased infrastructure problems. Collaborating. Digging deeper. All to find the right solution, from the start.



Behind the scenes and in the field.

Whether it is new construction, infrastructure upgrades, or grid and network maintenance, companies have relied on us for more than a product solution. Unlike other specialty-chemical manufacturers, Polywater provides: Unmatched **Exceptional** Superior Extensive **Specialty-Chemical** Industry **Technical** Planning **Products** Knowledge **Expertise** Resources LUBRICANTS It is the access to this **total support** of resources from products to customer care—that has helped **SEALANTS & ADHESIVES** companies build and maintain more reliable systems, reduce costs, protect and maximize the CLEANERS life of critical assets, and support their safety and



SPECIALTY sustainability goals.



Lubricants

In 1974, we revolutionized cable pulling with our line of innovative, water-based lubricants. Since then, we've continued to innovate, creating lubricants for every type of wire and cable imaginable and by making the planning of large-scale cable pulls smarter with the Polywater[®] Pull-Planner[™] Software.

Polywater Lubricants:

- Greatly Reduce Friction
- and Ending Tensions
- Minimize Cable Damage
- Are Safe for Workers and the Environment



• Help Achieve Longer Pulls • Lower Sidewall Pressures

Polywater LZ Lubricant

UNIVERSAL CABLE PULLING LUBRICANT



Provides High-Performing Friction Reduction and **Combustion Resistance** That Works with All Cable Jacket Materials



FEATURES AND BENEFITS

 LOW FRICTION COEFFICIENT Low tensions reduce risk of cable damage to ensure long-term integrity of cable networks

COMPATIBLE

Suitable on all cable jacket materials including LSZH/LSHF, CPE and CSPE

SPECIFICATION GRADE

Meets performance requirements in power and industrial plants, hightraffic areas, and data centers

SAFE

Will not cause deterioration of CSPE fire-retardant cables

ENDORSED

Tested and approved by global cable manufacturers

A Lubricant for all Cable Materials and Applications

Polywater® LZ Lubricant offers proven compatibility with all cable and duct materials, superior combustion resistance, and an inherently low coefficient of friction. Polywater LZ should be specified for installations of LSZH/LSHF cable in ducts and where fire propagation is a concern.

	CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
	LZ-35/WLZ-35	0.95 L (1 qt) Bottle	12
	LZ-55/WLZ-55	1.9 L (½ gal) Front End Pack™ in a Carton	6
	LZ-110/WLZ-110	1.9 L (½ gal) Front End Pack™ in a Pail	10
	LZ-128/WLZ-128	3.8 L (1 gal) Pail	4
	LZ-640/WLZ-640	18.9 L (5 gal) Pail	1
	LZ-DRUM/WLZ-DRUM	208 L (55 gal) Drum	1

W in the catalog number indicates Winter Grade version.

Available in packages for different

LZ

installation environments



LZ.

4



SPECIFICATIONS AND APPLICATIONS

• Cable Compatibility: Passes IEEE 1210 physical and electrical testing. Does not stress crack polyethylene. UL and ULc listed.

• Friction Testing: Offers low coefficients of friction on a wide range of cable jacket and duct materials for superior friction reduction.

• Physical Properties: Dries slippery. Contains no waxes or grease. Will not cement cables to conduit.

• Applications: Long installations with many bends where superior friction reduction is critical; data and communications centers or high-occupancy areas where LSZH cables and other fire-critical materials are used.

• Temperature Use Range: Polywater LZ: -5°C to 50°C (20°F to 120°F). Winter Grade Polywater WLZ: -30°C to 50°C (-20°F to 120°F).

Polywater **J** Lubricant

WATER-BASED GEL PULLING LUBRICANT



Proven High-Performance Cable Lubricant for Heavy Cable Installations

FEATURES AND BENEFITS

- MAXIMUM FRICTION REDUCTION For low cable pulling tensions
- CLEAN AND NON-STAINING Short clean-up time without damage to clothes and tools
- FIELD-FRIENDLY APPLICATION Can be pumped, hand applied, or deployed with a Front End Pack[™]
- HIGH CLING FACTOR Remains on cable jacket throughout the installation
- UL/ULc CERTIFICATION Certified by independent 3rd-party laboratory

The Most Used and Specified Cable Lubricant

Polywater[®] J Lubricant is a high-performance, clean, slow-drying, water-based gel lubricant that provides maximum tension reduction in all types of cable pulling. It is recommended for long pulls, multiple-bend pulls, and pulls in a hot environment.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
J-35 / WJ-35	0.95 L (1 qt) Bottle	12
J-27 / WJ-27	0.95 L (1 qt) Front End Pack™ in a Carton	12
J-99 / WJ-99	0.95 L (1 qt) Front End Pack™ in a Pail	16
J-55 / WJ-55	1.9 L (½ gal) Front End Pack™ in a Carton	6
J-110 / WJ-110	1.9 L (½ gal) Front End Pack™ in a Pail	10
J-128 / WJ-128	3.8 L (1 gal) Pail	4
J-640 / WJ-640	18.9 L (5 gal) Pail	1
J-DRUM / WJ-DRUM	208 L (55 gal) Drum	1

W in the catalog number indicates Winter Grade version.

SPECIFICATIONS AND APPLICATIONS

DESIGNED FOR USE IN:

4 ELECTRICAL

COMMUNICATIONS

8





Packages for different installation environments

ART (.95 LTR) BOTTLE



• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene. Refer to the technical bulletin for details. UL and ULc listed.

• Friction Testing: Shows excellent lubricity on a variety of cable jacket types. Using PVC conduit, the following COFs were measured: PVC .11, XLPE .11, LLDPE .11, HDPE .09, THHN .13, XHHW .11. Method described in "Coefficient of Friction Measurement on Polywater's Friction Table, 2019". Typical values determined using 290 kgs/m normal force.

• Formula: Contains no wax, grease, or silicone.

• Temperature Use Range: Regular Polywater J: -5°C to 50°C (20°F to 120°F). Winter Grade Polywater WJ: -30°C to 50°C (-20°F to 120°F).

Polywater + Silicone[™] Lubricant

SILICONE ENHANCED CABLE PULLING LUBRICANT



The Longest Cable Pulls Made Simple

Polywater + Silicone Lubricant provides superior friction reduction in the most difficult and longest pulls. It is available in Regular and Winter Grade versions. It is slow drying and leaves a thin, slippery film that retains its slip for months after installation.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
NN-128 / WNN-128	3.8 L (1 gal) Jug	4
NN-320 / NA	9.5 L (2½ gal) Jug	2
NN-640 / WNN-640	18.9 L (5 gal) Pail	1
NN-DRUM / WNN-DRUM	208 L (55 gal) Drum	1

W in the catalog number indicates Winter Grade version.

For Installing Heavy Transmission Cable, Pulling Through Water, and Lubricating High-Density Polyethylene (HDPE) Conduit Systems

DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

HEAVY PULLS

Best lubricant for heavy, rigid underground distribution and transmission cables

WATER RESISTANT

Does not wash off and reduces tension even when pulling through water

- VERY LOW FRICTION Consistently low friction/cable tension in HDPE and PVC pipe
- NON-FREEZING FORMULA Polywater + Silicone Type WNN is used in sub-freezing cable installations



SPECIFICATIONS AND APPLICATIONS

- upon request.

Consider using the Polywater LP-D5 drill-powered pump to make application easier for long-distance cable installations

Type NN



• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. Cable manufacturer approvals available

• Friction Testing: Shows excellent lubricity on a variety of cable jacket types. Using HDPE conduit, the following COFs were measured: LLDPE .05, PVC .08, XLPE .07, CPE .08, PP .07. Method described in "Coefficient of Friction Measurement on Polywater's Friction Table, 2019." Typical values determined using 2.91 kN/m (200 lbf./ft.) normal force.

Coatability: Polywater + Silicone NN will wet out evenly on cable jacket surfaces. Using the test procedure GR-356-CORE, Section 4.2.5, a cable was subjected to 5 separate pulling cycles through a water-filled duct and the COF was measured showing excellent friction reduction and lubricant adherence to the cable.

 Temperature Use Range: Regular Polywater NN: -5°C to 50°C (20°F to 120°F). Winter Grade Polywater WNN: -30°C to 50°C (-20°F to 120°F).

Polywater CLR

TRANSPARENT WATER-BASED GEL LUBRICANT



Clear, Clean, Easy-to-Apply Cable Pulling Lubricant for Daily Use



4 ELECTRICAL ((...)) COMMUNICATIONS

FEATURES AND BENEFITS

 CLEAN Wipes off easily so wire markers stick

- NON-STAINING Will not stain clothing, carpet, or sheetrock
- SAFE

Non-toxic and biodegradable water-based lubricant

 CLINGS TO CABLE Easy to apply by hand or squeeze onto the cable

 UL/ULc LISTED Meets test criteria

Suitable for All Types of Cable Installations

Polywater[®] CLR is a clear, slow-drying, thick gel lubricant that was developed for easy handling and application for all types of wire and cable installations. From electrical service work to data applications, it provides a clean and easy way to finish projects.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
CLR-35	0.95 L (1 qt) Bottle	12
CLR-128	3.8 L (1 gal) Pail	4
CLR-640	18.9 L (5 gal) Pail	1



- CLR CLR

Polwate

CABLE LUBRICANT

a . Clinas t • Easier



SPECIFICATIONS AND APPLICATIONS

• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene.

• Physical Properties: Dries slippery. Unlike wax lubes, it leaves little residue and will not cement cables to conduit. Contains no wax, grease, or silicone.

• Temperature Use Range: -5°C to 50°C (20°F to 120°F).

• Temperature Stability: No phase-out after five freeze/thaw cycles or 5-day exposure at 50°C (120°F).

Polywater Dyna-Blue®

THICK WATER-BASED GEL LUBRICANT



The Best Lubricant Choice for Manual Application



DESIGNED FOR USE IN:

(4) ELECTRICAL

FEATURES AND BENEFITS

• SAFE Non-staining gel lubricant. Will not stain clothing, carpet, or sheetrock

• EASY TO USE Can be applied by hand, stays in place

- HIGH CLING FACTOR Stays on wires during vertical application
- **TEMPERATURE STABLE** No ruined lubricant from freeze/thaw exposure
- WIPES CLEAN AND DRY Wire markers stick to cable jackets

Terrific for Vertical Applications

Polywater[®] Dyna-Blue[®] thick gel lubricant is clean, dries slippery, and won't separate out. It has a high cling factor for easy handling and application, and is compatible with common electrical cables. A good choice for everyday use when installing THHN, XHHW, and fire alarm cables.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
D-35	0.95 L (1 qt) Bottle	12
D-128	3.8 L (1 gal) Pail	4
D-640	18.9 L (5 gal) Pail	1
D-DRUM	208 L (55 gal) Drum	1

Polywater Dyna-Blue Lubricant is not recommended for LSZH/LSHF and certain CSPE and CPE cable jackets. For these jacket types, Polywater[®] LZ is the recommended/approved product.

Polywater Dyna-Blue can also be pumped using the LP-D5 drill-powered pump.

SPECIFICATIONS AND APPLICATIONS

- UL and ULc listed.



EMT, GRS, or IMC applications

Dyna-Blue

Heavy Duty Cable Lubricant



• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene.

• Physical Properties: Dries slippery. Unlike wax lubes, it leaves little residue and will not cement cables to conduit. Contains no wax, grease, or silicone.

• Temperature Use Range: -5°C to 50°C (20°F to 120°F).

• Temperature Stability: No phase-out after five freeze/thaw cycles or 5-day exposure at 50°C (120°F).

Polywater SPY[™]

THIN FILM POLYMER LUBRICANT



Sprayable Liquid Lubricant for Pulling or Pushing Cable

DESIGNED FOR USE IN:

4



FEATURES AND BENEFITS

• LOWERS TENSION Reduces friction on all types of cable,

including pre-lubricated versions

THIN FILM TECHNOLOGY

Formulated to cling and coat cables and wires during long pulls

• ZERO MESS

Dries quickly and leaves zero mess at end of receiving side of the pull, unlike traditional wax and gel pulling lubricants

- EASY TO APPLY Can be sprayed from pressurized sprayer or hand-trigger sprayer
- UL/ULc LISTED Meets US and Canadian test standards

Application Made Easier

Polywater[®] SPY[™] Lubricant can be sprayed into the duct or wiped on the cable in a thin film. Its unique chemistry applies thin as it is sprayed or wiped, but once on the cable or conduit surface, thickens to stay coated. Use for a quick and easy application with zero mess. Excellent for underground cable installations where automated or spray application is preferred.

	CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
	SPY-D20/WSPY-D20	20-Count Dispenser of 13 cm x 20 cm (5" x 8") Premoistened Wipes	12
	SPY-35LR/ WSPY-35LR	0.95 L (1 qt) Bottle	12
	SPY-128	3.8 L (1 gal) Jug	4
	SPY-640/WSPY-640	18.9 L (5 gal) Pail	1

W in the catalog number indicates Winter Grade version.

SPECIFICATIONS AND APPLICATIONS



Rolywates Sep



• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene. Refer to the technical bulletin for details. UL and ULc listed.

• Friction Testing: Shows excellent lubricity on a variety of cable jacket types. Using PVC conduit, the following COFs were measured: PVC .11, XLPE .06, LLDPE .07, THHN .08, XHHW .06. Method described in "Coefficient of Friction Measurement on Polywater's Friction Table, 2019". Typical values determined using 2.91 kN/m normal force.

• Formula: Contains no waxes or greases.

• Temperature Use Range: Polywater SPY: -5°C to 50°C (20°F to 120°F). Polywater WSPY (Winter Grade version): -30°C to 50°C (-20°F to 120°F).

Polywater **PJ Lubricant**

POURABLE COMPLEX-POLYMER PULLING LUBRICANT



Pourable High-Performance Cable Pulling Lubricant for Electrical, Communications, and Industrial Use

DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS



FEATURES AND BENEFITS

 NO MESS Pour or pump lubricant directly into the duct

 LOW VISCOSITY Makes pouring lubricant cleaner, faster, and easier

EASY TO PUMP

Ensures proper lubrication during longer pulls

COLD WEATHER FORMULA Lubricant can be used for yearround cable installations

QUANTITY

Use 3.8 L (1 gal) of lubricant per 30.5 m (100 ft) of cable installed

Field-Friendly Packaging—No More Handling the Lubricant

Polywater[®] PJ Lubricant offers the same high-performance factors, such as high lubricity and lower cable tensions, as the heavy duty Polywater® J Lubricant. Polywater PJ is the best choice for installations where pouring or pumping are more efficient methods of lubricant application. Available in two grades: Regular and Winter Grade, for use in temperatures as low as -30°C (-20°F).

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
PJ-128 / WPJ-128	3.8 L (1 gal) Jug	4
PJ-320 / WPJ-320	9.6 L (2½ gal) Jug	2
PJ-640 / WPJ-640	18.9 L (5 gal) Pail	1
PJ-DRUM / WPJ-DRUM	208 L (55 gal) Drum	1

W in the catalog number indicates Winter Grade version.

Polymeter PJ ==

SPECIFICATIONS AND APPLICATIONS

- XLPE .12, LLDPE .15.



Polywater PJ Lubricant can be used with the Polywater® LP-D5 drill-powered pump

Polymenter PJ



• Cable Compatibility: Passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene. Refer to the technical bulletin for details.

• Friction Testing: Shows excellent lubricity on a variety of cable jacket types. Using PVC conduit, the following COFs were measured: PVC .11,

• Physical Properties: Dries slippery. It leaves little residue and won't cement cables into conduit.

• Temperature Stability: PJ is stable and will not separate after exposure to high heat or freezing.

• Temperature Use Range: Regular Polywater PJ: -5°C to 50°C (20°F to 120°F). Winter Grade Polywater WPJ: -30°C to 50°C (-20°F to 120°F).

Polywater **F** Lubricant

POURABLE WATER-BASED LUBRICANT



Ideal for Pulling Fiber Optic and Other Communications Cable



FEATURES AND BENEFITS

• POURABLE Can be poured into upturned innerducts and feeder tubes

 HIGH PERFORMANCE Superior friction reduction for lower tension and/or longer pulls

• CLINGS

Wets out and coats PE cable jackets, while evenly lubricating at all points of a cable run

SLOW DRYING

Leaves a slippery film for lasting lubrication

COMPATIBLE WITH CABLE JACKETS

Avoid weakened or cracked cable jackets

Pourable, High-Performing Friction Reduction on Longer Pulls

Polywater[®] F Lubricant is ideal for pulling underground fiber optic cable, coaxial, and copper-pair cable, where lower tension is required. It is available in two grades: Regular Grade F and Winter Grade WF for cold weather use in temperatures as low as -30°C (-20°F).

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
F-35 / WF-35	0.95 L (1 qt) Bottle	12
F-128 / WF-128	3.8 L (1 gal) Pail	4
F-320 / WF-320	9.6 L (2½ gal) Jug	2
F-640 / WF-640	18.9 L (5 gal) Pail	1
F-DRUM / WF-DRUM	208 L (55 gal) Drum	1

W in the catalog number indicates Winter Grade version.

Can be used with the Polywater[®] LP-D5 drill-powered pump

- kinetic friction < 0.12.

- combustible.



SPECIFICATIONS AND APPLICATIONS

• Lubricity: LDPE-, MDPE-, and HDPE-jacketed cable on HDPE and PVC innerduct at 2.91 kN/m (200 lbs./ft) sidewall pressure, coefficient of

• Appearance: Transparent to slightly opaque, orange-colored, stringy liquid material.

• Temperature Stability: No more than a 20% change in Brookfield viscosity from 5°C to 40°C (40°F to 100°F). No phase-out after five freeze/thaw cycles or 5-day exposure at 60°C (140°F).

 Cable Compatibility: No deleterious effects on physical or electrical properties of cable jackets.

• Polyethylene Stress Cracking: No stress cracking on LDPE cable jackets when tested by ASTM D1693.

• Flammability: Lubricant has no flash point and dried residue is not

• Temperature Use Range: Regular Polywater F: -5°C to 60°C (20°F to 140°F); Winter Grade Polywater F: -30°C to 60°C (-20°F to 140°F).

Polywater **FTTx Lubricant**

THIN SILICONE-ENHANCED LUBRICANT

Quick-Drying, No-Mess,

Sprayable Lubricant

that Lowers Tension

in Fiber Drops and

Data Cable Pulls



FEATURES AND BENEFITS

• ZERO MESS

Leaves no mess at the receiving end of the pull, unlike traditional wax and gel pulling lubricants

QUICK DRYING

Ultra-thin coating levels reduce friction even when dry

• LOW-FRICTION RESIDUE

Microscopic residue lowers tension cleanly and efficiently

• EASY TO USE

Spray or wipe application helps keep a clean workspace

COMPATIBLE

Suitable for a variety of cable jacket types

Friction Reduction Without the Mess

Polywater® FTTx is a high-performing lubricant designed specifically for communication cable installations. It is available in several unique packages for your preference: a refillable quart spray bottle, jugs, pails, and lubricant saturated wipes.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
FTTx-D20	20-Count Dispenser of 13 cm x 20 cm (5" x 8") Premoistened Wipes	12
FTTx-35LR	0.95 L (1 qt) Bottle with Sprayer	12
FTTx-128	3.8 L (1 gal) Jug	4
FTTx-640	18.9 L (5 gal) Pail	1

SPECIFICATIONS AND APPLICATIONS





DESIGNED FOR USE IN:

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• Viscosity: 250-750 cps @ 10 rpm.

• Combustibility: FTTx has no flash point and dried residue is nonflammable.

• Wetting—Continuous Coat: FTTx will wet out evenly on cable jacket surfaces. It will not bead up or rub off of the cable jacket.

• High-Performance Data Cables: FTTx has a minimal effect on the datacarrying capacity of high-speed Cat. 5E, 6, and 6A copper cable. As a "thinfilm" lubricant, FTTx prevents cable signal attenuation caused by gels.

• Cable Compatibility: Conforms to the physical and performance requirements of Telcordia Standard TR-NWT-002811, generic requirements for cable pulling lubricants.

Polywater Prelube 2000[™]

FIBER OPTIC CABLE BLOWING LUBRICANT



Increases Installation Distance When Blowing Fiber Optic Cable and Microducts



FEATURES AND BENEFITS

 REDUCES FRICTION Increases installation distance

- EASY TO USE Simply squeeze into duct before blowing fiber optic cable
- TESTED AND APPROVED

Endorsed and recommended by most blowing equipment manufacturers for reliable, cost-effective operation of equipment

• WINTER GRADE AVAILABLE For use in sub-freezing temperatures

COMPATIBLE WITH CABLE JACKETS Avoid weakened or cracked fiber optic jackets

Long-Distance Fiber Optic Cable Installation

Polywater[®] Prelube 2000[™] can be used in both high-speed air blowing or push-pull/piston systems. By reducing frictional drag during the blowing (jetting) of outside plant fiber optic cable into ducts you can maximize installation distances. Longer distances reduce the number of equipment setups and the associated labor, minimizing the cost per meter of installed cable.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
P-35 / WP-35	0.95 L (1 qt) Bottle	12
P-128 / WP-128	3.8 L (1 gal) Jug	4
P-640 / WP-640	18.9 L (5 gal) Pail	1

W in the catalog number indicates Winter Grade version.

SPECIFICATIONS AND APPLICATIONS



DESIGNED FOR USE IN:

COMMUNICATIONS

and microduct



• Cable Compatibility: Passes all compatibility tests for PE jacketed cables.

• Cost Effectiveness: Prelube 2000 offers significant cost savings over "factory-lubricated" duct. In high-quality HDPE duct, it lubricates efficiently at coating levels of 0.5 mg/cm² of duct surface. At these levels, the lubricant cost for 3.2 cm (1.25") duct is approximately \$6 per kilometer (\$2 per 1,000 feet), much lower than the additional cost for the factory-lubricated duct.

• Safe: Prelube 2000 is non-hazardous.

Polywater Prelube 5000[™]

MICROCABLE BLOWING LUBRICANT



Increases Installation Distance When Blowing Fiber Optic Microcables

DESIGNED FOR USE IN:

COMMUNICATIONS

FEATURES AND BENEFITS

 REDUCES FRICTION Increases blowing distance

LOW COATING LEVELS

Coats further and more effectively than conventional blowing lubricants at extremely low coating levels

EASY TO USE

Simply squeeze into small diameter microducts before blowing fiber optic cable

TESTED AND APPROVED

Endorsed and recommended by most blowing equipment manufacturers for reliable, cost-effective operation of equipment

COMPATIBLE WITH CABLE JACKETS

Avoid weakened or cracked fiber optic jackets

Blowing Lubricant for Air-Assisted Installation of Fiber

Polywater[®] Prelube 5000[™] is formulated exclusively for reducing frictional drag during the blowing of small diameter fiber optic microcable into microtube duct. It increases installation distance of cable in a single shot. The chemistry allows this product to spread farther and reduce friction at extremely low coating levels. The lower viscosity allows practical application into the microtubes.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
PM-8	240 ml (8 fl oz) Squeeze Bottle	6	
PM-16*	470 ml (16 fl oz) Squeeze Bottle	15	

*AVAILABLE ONLY IN EUROPE AND MIDDLE EAST



- microtube size.

Specially formulated

lubricant for blowing microcable



SPECIFICATIONS AND APPLICATIONS

• Cable Compatibility: Passes all compatibility tests for PE jacketed cables. It is compatible with known microcable plastic jackets. However, it should not be used for resin-coated fiber cables.

 Cost Effectiveness: Prelube 5000 is also extremely efficient and cost effective. It lubricates at coating levels as low as 0.05 mg/cm² of the tubing's interior surface. At these levels, the lubricant cost is \$0.60 to \$2.20 per kilometer (\$0.20 to \$0.75 per 1,000 feet), depending on

• Safe: Prelube 5000 is non-hazardous.

Polywater LP-D5

DRILL-POWERED LUBRICANT PUMP



A Clean, Efficient Way to Pump Cable Pulling Lubricant from Pails and Drums

DESIGNED FOR USE IN:



FEATURES AND BENEFITS

 CLEAN Eliminates hand scooping, messy pouring, and lengthy clean-ups

• EFFICIENT

Provides consistent lubrication with less effort when pulling cable

• ADJUSTABLE

Works with a variable-speed drill (not included) to pump at appropriate rate based on cable size and pulling speed

VERSATILE

Lubricants can be pumped into vertical or horizontal conduits

DURABLE & CORROSION RESISTANT

Solid brass body with stainless steel shaft is not affected by water-based lubricants

Makes Cable Lubrication Clean and Efficient

Polywater[®] LP-D5 Lubricant Pump is a ½-inch drill-operated, self-priming gear pump. It is able to pump all varieties of Polywater lubricants directly into the conduit or onto the cable at rates exceeding 3.3 L per minute. Includes two sizes of hands-free applicators that help guide the cable(s) into conduits to reduce the possibility of damage.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
LP-D5	Drill-powered lubricant pump	1	
	*Drill not included		

The package contains the pump and tube, 4.7 m (10 foot) discharge hose, an additional extension tube for 208 L (55 gallon) drums, and the two lubricant applicators.





SPECIFICATIONS AND APPLICATIONS

• Operation: For use on 208 L drum and 18.9 L pail, open pail or drum. With drum, untie and open liner, then replace drum cover. Set LP-D5 pump in 5 gallon pail or into the 2 inch bung hole of a 208 L drum. Attach variablespeed drill to LP-D5. Insert free end of hose into conduit opening, pail, or jug. Set drill to OPERATE IN FORWARD. Start drill to pump lubricant until it is visible at hose end. If installing cable, start pulling cable and start variable-speed ¹/₂-inch drill to pump lubricant at desired flow rate.

Cleaning: Pump clean tap water through LP-D5 pump until water discharge is clear. Let pump sit for 15 minutes. Run pump again with clean tap water to remove any remaining lubricant. Repeat the process as necessary. Wipe off pump and applicator. Protect from dirt with bag or other cover.

Polywater **CableFree® Loosener**

CABLE REMOVAL AID



Safe and Cost-Effective Duct Reclamation

DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

• LOOSENS Releases cables stuck in ducts

- **DISSOLVES** Softens a wide variety of binding materials
- LUBRICATES Eases the removal of cables
- SAVES Minimizes damage and duct reclamation costs
- EFFICIENT Creates space in duct for new cable placement

Reclaim Over-Filled Ducts

Polywater[®] CableFree[®] Loosener dissolves wax, rust, soap, and other adhesive residues to make removal of unused cables in ducts easy and effective. Removal of unused cables helps to free space in existing ducts for installation of new fiber optic or electrical cables.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
CF-35	0.95 L (1 qt) Bottle	12
CF-128	3.8 L (1 gal) Jug	4
CF-640	18.9 L (5 gal) Pail	1





CableFree

Polywate

CF-128



SPECIFICATIONS AND APPLICATIONS

• Remove Abandoned Circuits: Make room for new cable installations.

• Dissolve old-style lubricants: Soften old-style wax or petroleumbased lubricants hardened over time.

• Recycle Copper: Generate revenue from abandoned copper cables.

• Reuse Overfilled Ducts: Reduce circuit expansion cost using reclaimed ducts.

Polywater Type P7[™]

SPRAYABLE PENETRATING OIL



Multi-Functional Penetrating Oil Suitable for Many Electrical, Telecommunication, and Industrial Uses



DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

 PROTECTS Extends equipment life by providing a protective film

 DISPLACES WATER Seals out moisture and dries out ignitions

- PENETRATES Loosens stuck metal parts and apparatus
- SAFE

Harmless to most plastics and safe on metal, paint, and rubber

 NON-CONDUCTIVE Leaves a protective film that is non-conductive

One Product for Multiple Jobs

Polywater[®] Type P7[™] is ideal for pole line hardware, transformers, connectors, circuit breakers, controls, chucks, relays, communication assemblies, motors, starters, cabinets, enclosures, maintaining substations, wind farms, solar arrays, and DOT apparatus.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
P7-12*	475 ml (16 oz) Aerosol Can	12	

Polywater Type P7 works four ways: as a moisture displacer, rust preventative, lubricant, and penetrating oil. Eliminate the need to carry multiple products for separate tasks. With Type P7 you can prevent electrical disruption caused by moisture penetration. Restore electrical systems or equipment damaged by water ingress. Quickly loosen stuck or frozen parts. Maintain and lubricate equipment and motors.

*NOT AVAILABLE IN EUROPE AND MIDDLE EAST



- USDA Approved.



trates Stuck Parts

icates Hardware



SPECIFICATIONS AND APPLICATIONS

• Properties: Flash Point (ASTM D93) 38°C/100°F, Initial Boiling Point 118°C/245°F, Specific Gravity 0.69, Dielectric Strength (ASTM D877) 13 kV,

Compatibility: P7 Multipurpose Oil is compatible with most plastics and elastomers. Testing is based on a soak test described in ASTM D 543. P7 Oil will temporarily affect some rubber compounds, but they should return to their original state after the solvent carrier has dried. It is recommended that all plastic parts, gaskets, seals, and O-rings be tested for specific use and exposure method.

• Water Displacement: P7 Multipurpose Oil displaces moisture and dries out ignitions. It creeps under water and ice, dissolving and carrying away these contaminants. A non-conductive, protective film is left behind. P7 Oil displaces water according to the procedure described in Mil-Spec C-16173E. No rusting or mottling was observed on the treated surface.

Polywater Pull-Planner[™] 4.0

CABLE PULLING, TENSION CALCULATION, AND CONDUIT SYSTEM DESIGN SOFTWARE



Makes the Planning of Complex, Large-Scale Cable Pulling Designs Smoother and More Efficient



FEATURES AND BENEFITS

INTUITIVE OPERATION

User-friendly menus and control buttons improve experience over previous versions

CUSTOMIZED DATABASE

Unlimited number of cables can be logged in easy-to-use database

MINIMIZE RISK

Provides coefficient of friction (COF) guidance to reduce risks during cable pulls

• FLEXIBLE

Allows for push/pull, variable friction, roller use, pull reversal, back calculation of COF, and more

UNIVERSAL

Runs metric or English units

Confidently and Accurately Achieve Longer Pulls

Polywater[®] Pull-Planner[™] 4.0 for Windows[®] utilizes industry standards to calculate maximum cable pulling tension and sidewall pressure around bends. The application helps you save time and money by verifying calculations, minimizing splices and vaults, pulling set-ups, planning for future system upgrades, and reducing the chances of cable damage. An excellent resource for cable system specification and planning conduit systems prior to the pull.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
PP-40	Internet Download	1	
PP-40	Internet Download	1	









SPECIFICATIONS AND APPLICATIONS

- Available in four languages: English, Spanish, German, and French
- Accessible as an internet download
- Operates on standard Windows[®] and allows for data transfer to Excel for printing, saving, and documenting
- Installation consumes 125 megabytes of hard drive space
- Pull-Planner 4.0 accepts pull and cable data saved under previous Pull-Planner software versions





Sealants and Adhesives

Polywater makes a number of innovative specialty adhesives and sealants used in electrical, communications, and oil/gas construction and maintenance.

- Increase Infrastructure Reliability
- Extend the Life of **Critical Assets**
- Harden Systems Against Storm Damage
- Prevent Service Outages
- Protect Conduit and **Raceway Systems**
- Provide an Option to Repair vs. Replace
- Field and User Friendly
- Reduce Maintenance Costs





Polywater FST[™] Family

CLOSED-CELL FOAM DUCT SEALANT



8

Durable and Reliable Sealing of Conduits and Risers from Moisture, Gases, and Pests



FEATURES AND BENEFITS

 MEETS SAFETY REQUIREMENTS Creates safe air/watertight seals and is fire retardant-meeting most countries' electrical codes

RELIABLE

Holds 6.7 m (22 ft) of water head pressure and up to 27 m (90 ft) surges

• VERSATILE

Can seal conduits of all sizes and is re-enterable

COMPATIBLE

Use with a wide range of cable jacket and conduit materials

SOLVES CRITICAL APPLICATION

Class 1, Div 2 locations and areas subject to temperature variations

Protects Conduit and Raceway Systems

Polywater[®] FST[™] Foam Sealant provides a superior pressure-blocking barrier in the toughest environments. It stops water, methane, and other gases to keep electrical systems and underground cable networks intact. It is durable, chemically resistant, and has excellent adhesion properties. Available in a variety of easy-to-install, field-ready kits.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
FST-250KIT1	Kit Includes: 1 – 250 ml FST Cartridge (cat# FST-250); 3 – Mixing Nozzles (cat# MXR-30T-10); 4 – 61 cm Foam Damming Strips (cat# FST-DAM); 1 – 30.5 cm Sanding Cloth; 1 – Pair of Gloves; 1 – Positioning Rod for Foam Dam; 1 – Pre-treating Wipe (cat# HP-P158ID); 1 – Resealing Cap; 1 – Instruction Sheet TOOL-250 NOT INCLUDED. SOLD SEPARATELY.	1
FST-250KIT	Same as kit above in a box of 6	6
FST-250	1 – 250 ml FST Cartridge; 1 – Mixing Nozzle; 1 – Resealing Cap	12
MXR-30T-10	10 Pack of Mixing Nozzles for FST-250	1
TOOL-250	1 – High-ratio Caulking Tool for FST-250	1
FST-DAM	1 – 61 cm Foam Damming Strip	24
FST-MINI-1	Kit Includes: 1 – 50 ml FST Cartridge; 2 – Mixing Nozzles (cat# MXR- 20T-10); 6 – Foam Discs; 2 – Pairs of Gloves; 1 – Instruction Sheet	1
FST-MINI-B6	6 – FST-MINI-1	1
TOOL-50-11	1 – Dispensing Tool for FST MINI	1
MXR-20T-10	10 Pack of Mixing Nozzles for FST MINI	1
FSTBP-200B6	6 – Burst Packs for Ducts 125 mm or Larger	1
FSTBP-200KIT1	200 ml Burst Pack; 1 – Pair of Gloves; 4 – FST-DAM; 1 – 30 cm Sanding Cloth	1
FSTBP-200KIT6	6 – FSTBP-200KIT1	1

SPECIFICATIONS AND APPLICATIONS

- 125 mm (5").
- can be reentered.

Contents of the FSTBP-200KIT1

4

DESIGNED FOR USE IN:

ELECTRICAL

COMMUNICATIONS



• Application: FST-250 is recommended for conduits of 50 mm (2") or larger. Polywater[®] FST[™] MINI is recommended for conduits less than 40 mm (1.5"). Polywater[®] FSTBP[™] (Burst Pack) is recommended for conduits larger than

Adhesion: Bonds to PVC, GRS, EMT, IMC, fiberglass, and PE conduits. Ducts

• **Codes:** Meets most countries' electrical codes. Creates air/watertight seals and is fire retardant. Check local codes for performance criteria. 2011 NEC Articles 225.27, 230.8, 300.5(G), 300.7 (A) on Raceway Seals, and 501.15 (B)(2)

Folywater AFT[™]

CLOSED-CELL FOAM AEROSOL DUCT SEALANT



Seals and Protects Cable Networks from Moisture, Gases, and Pests

DESIGNED FOR USE IN:

COMMUNICATIONS

ELECTRICAL

FEATURES AND BENEFITS

 QUICK INSTALLATION Complete foam application in 2 minutes or less

RELIABLE

Closed-cell structure protects cable network with 3 m (10 ft) of continuous water head pressure

• **RE-ENTERABLE**

Easily removed to facilitate new cable installation or old cable removal

 SUPERIOR ADHESION Adheres strongly to common

duct materials

• SAFE

Flame retardant with a UL 94, Class HBF fire retardant rating

Durable and Rugged Performance

Polywater[®] AFT[™] generates a durable seal to protect valuable cable infrastructure. With higher pressure performance than duct-putty or single-part thermal insulating foams, it does not shrink or lose waterstopping performance over time. AFT seals service entrances, conduit stub-ups, innerducts, and riser poles in the electrical and communications grids.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
AFT-16P4	1 – 480 ml (16 oz) Can; 2 – Actuators	4
AFT-16	1 – 480 ml (16 oz) Can; 2 – Actuators	15
AFT-SAE10	10 Pack of Actuators with Standard Extension Tube	1
AFT-FAE10	10 Pack of Actuators with Flexible Extension Tube	1

SPECIFICATIONS AND APPLICATIONS



Polymai

4



• Cable Compatibility: AFT sealant is proven to be compatible with common cable jacket materials based on tensile/elongation and volume resistivity testing.

• Approvals: AFT is a UL recognized component and passed UL 94 with a Class HBF fire retardant rating.

• Cure Rate: AFT foam expands two times its volume when dispensed. Full expansion is complete in under 2 minutes and tack free within 3 to 5 minutes at 21°C (70°F). During this time do not move cables or touch foam. At temperatures as low as 7°C (45°F), the foaming reaction time is slower.

• Application: Shake can for 60 seconds to mix. Lift hinge and insert dispensing nozzle into top orifices so that the arrow lines up with the dispensing nozzle. Invert aerosol can. Insert nozzle all the way into the seal space and fully squeeze the lever to spray sealant into the conduit.

Polywater ZipSeal[™]

CLOSED-CELL FOAM DUCT SEALANT



Fast and Efficient Way to Seal Small Conduits and Communication Innerducts



FEATURES AND BENEFITS

- PROTECTS Keeps water, gases, and rodents out of conduits
- QUICK INSTALLATION Installs in just 45 seconds
- RE-ENTERABLE Once installed, can be quickly removed and resealed if necessary
- MULTIPLE SEALS One kit seals up to five 50 mm (2") conduits

MEETS CODE REQUIREMENTS

Creates air/watertight seals. Meets most countries' electrical code performance requirements.

Efficiently Seals Small Conduits and Innerducts

Polywater[®] ZipSeal[™] is a fast and reliable way to seal small conduits and communication innerducts up to 50 mm (2")—protecting valuable cable infrastructure. With higher pressure performance than duct putty or single-part insulating foams, it will not shrink or lose performance over time. The revolutionary Zip-Disc[™] insert traps the foaming liquid in its open-cell (center) area, ensuring a solid seal.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
ZIP-50KIT1	Kit Includes: 1 – 50 ml Cartridge; 2 – Mixing Nozzles; 2 – Pairs of Gloves; 5 – 5 cm (2") Zip-Discs; 1 – Instruction Sheet	1	
ZIP-50KITB6	1 Box with 6 ZIP-50KIT1	1	
TOOL-50-11	Dispensing Tool for 50 ml Cartridge	1	
MXR-20T-10	10 pack of Mixing Nozzles	1	

- not sag over time.

- 5.4.2.3, and 7.4.8.1.



Contents of the ZIP-50KIT1 Kit

polywater.com



SPECIFICATIONS AND APPLICATIONS

• Preferred Sealant: Easier to install than duct putty and will

• Water Head: Holds up to 3.0 m (10 ft) water head pressure.

• Seals Quickly: Sealant will harden in 5 to 7 minutes.

• Unique Zip-Disc: The Zip-Disc allows for clean and effective horizontal or vertical installations.

• Multi-Use Cartridge: May be resealed for future use.

• Compliant: Complies with TIA-758-B Standard 5.1.1.2.8,

Polywater BonDuit®

POLYETHYLENE (PE) CONDUIT ADHESIVE



Stronger and More Durable **Conduit Connections** between High-Density Polyethylene (HDPE) and Other Material Types



polywater.com

FEATURES AND BENEFITS

 SUPERIOR Stronger pullout strength than mechanical couplings

• VERSATILE Bonds HDPE to PVC, rigid steel, and fiberglass conduits and fittings

- **FAST AND DURABLE** Bonds with high strength within an hour
- **EASY TO USE** Requires no special training
- **CONVENIENT KITS** Contains all application components required for a quick installation

Creates Strong, Long-Lasting Bonds

Polywater[®] BonDuit[®] Conduit Adhesive is a two-part curing adhesive that creates a watertight and airtight conduit connection within an hour after application. The strong bond withstands movement and vibration and is ideal for installation along roadsides or near electrical equipment such as transformers or switchgear. The adhesive cartridge creates numerous connections and can be recapped for later use with a new nozzle.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
BT-KIT	Kit Includes: 2 – Adhesive Cartridges ; 8 – Mixing Nozzles; 1 – Strip of Sanding Cloth; 8 – Type RP™ Cleaning Wipes (cat #RP-1)	1	
BT-KITB6	1 Box with 6 BT-KIT	1	
BT-CART12PK	12 – Adhesive Cartridges ; 36 – Mixing Nozzles	1	
TOOL-50-11	1 – Dispensing Tool	1	
MXR-12T-10	10 Pack of Mixing Nozzles	1	

SPECIFICATIONS AND APPLICATIONS

Contents of the Polywater BonDuit BT-KIT

4

DESIGNED FOR USE IN:

ELECTRICAL

COMMUNICATIONS



• Compliance with Electrical Code: Meets many electrical codes that require PVC or galvanized rigid steel pipe to be used for the transition from underground HDPE pipe to aboveground connections. PVC pipe cement does not bond HDPE.

• Adhesive Shear Strength: Typical bond strengths were measured by joining two pieces of HDPE conduit with a PVC coupling and BonDuit adhesive. The force required to pull apart the joint after 24 hours at 21°C (70°F) was measured. Conduit diameter pullout force 40 mm = 5.48 kN; 50 mm = 9.01 kN; 100 mm = 23.72 kN

Polywater PowerPatch[™] Family

TRANSFORMER LEAK REPAIR



Fast, Reliable Leak Repair for Oil and SF₆ Gas Insulated Transformers, PILC, and Switchgear



FEATURES AND BENEFITS

- STRONG MOISTURE SEAL Protects transformer from accelerated aging
- REPAIRS ACTIVE LEAKS Stops dripping and sweating leaks
- HIGH-PRESSURE RESISTANCE Seals leaks in even the largest oil-filled and GIS systems
- STRONG MATERIAL ADHESION Bonds to steel, copper, porcelain, lead, and other common electrical substrates
- DIELECTRIC COMPATIBILITY Reduces partial discharge of oil and solid insulation

Stops Costly Outages

Polywater[®] PowerPatch[™] is a fast, durable, economic, and effective means to protect essential grid assets. Whether repairing small pinholes or cracks and large areas, PowerPatch reduces costly unplanned outages and environmental risks in a timely and cost-effective manner. PowerPatch Transformer Leak Repair technology comes in a variety of convenient packages for effective on-site application.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
EPCT-KIT1	Multi-use Kit Includes: 2 – PowerPatch 2-part Cartridges; 4 – Mixing Nozzles; 2 – Small Putty Sticks (4 cm); 8 – Type RP [™] Cleaning Wipes (cat # RP-1); 1 – Sanding Cloth (61 cm); 4 – Application Sticks; 1 – Instruction Sheet	1
EPCT-KITB6	1 Box with 6 EPCT-KIT1	1
TOOL-50-11	1 – Dispensing Tool (for EPCT Style Kits Only)	1
EP-KIT11	Kit Includes: 1 – Sealed Plastic Bag with 2-part Sealant (part A & B); 1 – Small Putty Stick (4 cm); 2 – Type RP Cleaning Wipes (cat # RP-1); 1 – Sanding Cloth (61 cm); 2 – Mixing Sticks; 1 – Pair of Gloves; 1 – Instruction Sheet	1
EP-KITB6	1 Box with 6 EP-KIT11	1
EP-KITB12	1 Box with 12 EP-KIT11	1
EP-KIT51	Kit Includes: 6 – 2-part Sealant Sets (part A & B); 1 – Large Putty Stick (18 cm); 12 – Type RP Cleaning Wipes (cat # RP-1); 6 – Sanding Cloths (61 cm); 12 – Mixing Sticks; 6 – Pairs of Gloves; 1 – Instruction Sheet	1
EPSC-KIT1	Kit Includes: 2-part Sealant, PowerPatch Slow Cure Adhesive Part A and B (350 grams total); 3 – Type RP Cleaning and Preparation Wipes; 1 – 30.5 cm Strip Sanding Cloth; 4 – Mixing Sticks; 1 – Pair Disposable Gloves; 1 – Instruction Sheet	1
EP-STICK4	Large 18 cm (7") Putty Stick	12



Contents of the Polywater PowerPatch EP-KIT11

DESIGNED FOR USE IN:

ELECTRICAL

4



SPECIFICATIONS AND APPLICATIONS

• Electrical Reliability: Moisture can damage transformers. Sealing leaks as quickly as they occur is the key to keeping moisture from entering transformers and causing premature or catastrophic failure.

• Chemical Resistance: Sealant chemically resists dielectric fluids, SF, gas, ultraviolet light, water, and oil.

• Leak Sealing Performance: Sealant shows good adhesion to numerous metals, ceramics, and rubbers; and no leakage under high pressure (up to 0.7 MPa) with both air and polybutene oil.

• Electrical Testing: Platen samples are cast and fully cured. Sealant is non-conductive. Dielectric strength is 43 kV using ASTM D149, Method A.



UTILITY PAD SEALANT BARRIER



Pourable Sealant Barrier that Prevents Costly Outages



FEATURES AND BENEFITS

DETERRENT

Keeps rodents, snakes, insects, and water from entering enclosures

• EASY TO USE Ready to mix and apply— No water needed

BLOCKS

Flows and self-levels before expansion to seal the entire opening

RE-ENTERABLE

Saw or drill after installation to install new ducts or cables

PROTECTS

Offers permanent protection through weather extremes or equipment changeouts

Safeguard Enclosures and Equipment from Damage

Polywater[®] InstaGrout[™] Sealant is a two-part urethane foam that seals pad-mounted equipment openings to prevent outages and service disruptions caused by animal or moisture ingress. It is safer to use and more effective than concrete grout. InstaGrout will not collapse during changeouts and adheres to various pad materials. It is available in convenient kits to seal a range of openings in transformers, switchgear, cabinets, and inverters.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
PMT-1	Kit Includes: 1 – 750 ml Burst Pack; 1 – Pair of Gloves; 1 – Instruction Sheet <i>Covers ~0.09 m² (1 sq ft), 7.6 cm (3") Depth</i>	2	
PMT-2	Kit Includes: 1 – 1500 ml Burst Pack; 1 – Pair of Gloves; 1 – Instruction Sheet <i>Covers ~0.19 m² (2 sq ft), 7.6 cm (3") Depth</i>	2	
PMT-3	Kit Includes: 1 – Bottle Part A; 1 – Bottle Part B; 1 – Mixing Pail; 1 – Mixing Stick; 1 – Pair of Gloves; 1 – Instruction Sheet <i>Covers ~0.28 m² (3 sq ft), 7.6 cm (3") Depth</i>	1	
PMT-10	Kit Includes: 1 – Jug Part A; 1 – Jug Part B; 1 – Mixing Pail; 1 – Pair of Gloves; 1 – Instruction Sheet <i>Covers ~0.93 cm² (10 sq ft); 7.6 cm (3") Depth</i>	1	

SPECIFICATIONS AND APPLICATIONS

- polyethylene.

Туре РМТ

Contents of the Polywater InstaGrout PMT-3 Kit

acids, and bases.



• Material Compatibility: Cured Polywater InstaGrout Sealant is compatible with cable jacket materials, conduits, and various transformer pad materials. The foam is an inert solid that will not compromise the jacket material.

• Adhesion: Polywater InstaGrout Sealant has good adhesion to a variety of materials found in electrical cabinets, including PVC, copper, aluminum, fiberglass pads, polymer concrete pads, polyester, and

• Water and Chemical Resistance: Polywater InstaGrout Sealant does not absorb water and is chemically resistant to gasoline, oils, dilute

Folywater PedFloor[™]

PEDESTAL SEALING FOAM BARRIER



Creates a Hard Foam Barrier to Prevent Pest Infestation

FEATURES AND BENEFITS

• DETERRENT Keeps rodents, snakes, and insects from entering the pedestal or cabinet

• STRONG Structural foam matrix creates a robust seal

COMPLETE SEAL

Flows and self-levels before expansion to conform to complex shapes

VERSATILE

Can be used as a suspended floor or directly on the ground

PROTECTS

Cured product offers permanent protection through weather extremes

Structural Barrier to Prevent Service Disruptions

Polywater[®] PedFloor[™] Pedestal Sealant helps prevent outages and service disruptions by curing into a resilient and impermeable structural barrier. It keeps out moisture and stops pests from burrowing into the enclosure and causing costly outages or health and safety hazards. PedFloor is available in several convenient kits for easy installation.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
PF-1	Kit Includes: 1 – PedFloor Burst Pack (750 ml); 1 – Pair of Gloves; 1 – Plastic Sheet (per case); 1 – Roll Duct Tape; 1 – Instruction Sheet <i>Covers ~0.09 m² (1 sq ft), 7.6 cm (3") Thick</i>	2
PF-2	Kit Includes: 1 – PedFloor Burst Pack (1500 ml); 1 – Pair of Gloves; 1 – Roll Duct Tape; 1 – Plastic Sheet; 1 – Instruction Sheet <i>Covers ~0.19 m² (2 sq ft), 7.6 cm (3") Thick</i>	2
PF-3	Kit Includes: 1 – Bottle Part A; 1 – Bottle Part B; 1 – Pair of Gloves; 1 – Mixing Pail; 1 – Mixing Stick; 1 – Plastic Sheet; 1 – Roll Duct Tape; 1 – Instruction Sheet <i>Covers ~0.28 m² (3 sq ft), 7.6 cm (3") Thick</i>	1
For Smal	l Repairs and/or Supplemental Patching, Use an FSTBP™ Burst F	Pack:
FSTBP-200B6	6 – FSTBP-200 (200 ml) Burst Packs; 6 – Pairs of Gloves; 1 – Instruction Sheet	1

SPECIFICATIONS AND APPLICATIONS

- 20 minutes.
- deployment.

DESIGNED FOR USE IN:

COMMUNICATIONS

PedFlo

KOT

and different

Type PF

Polymater

Part B Base



• Working Temperature: PedFloor is most effective when used between 2°C (35°F) and 43°C (110°F).

• No Application Tool: The convenience of a burst pack ensures no application tools or accessories are necessary in the field.

• Reaction/Curing Time: Sealant will flow and expand for approximately

• Multiple Applications: Bonds well to itself, ensuring multiple applications of PedFloor have the same strength as a single

51

Polywater Pad N Pole[™]

FIBERGLASS UTILITY ENCLOSURE REPAIR SYSTEM



Fast, Versatile, and Durable Field Repair of Utility Enclosures, Poles, and Pedestals



FEATURES AND BENEFITS

• PROTECTS

Fixes and restores a wide variety of defects to prevent water, pest, or human intrusion

PREVENTS

Helps stop outages and costly changeouts

- DURABLE Withstands environmental extremes and is UV resistant
- VERSATILE Repairs damage of various shapes and sizes
- EASY TO USE Kit contains materials to complete repair in a single visit

Restores System Integrity

Polywater[®] Pad N Pole[™] Repair System is supplied in kits that contain everything needed to perform multiple repairs. It fixes a wide variety of defects, from small cracks to large holes. The repair system provides a durable, long-lasting repair, preventing outages and costly replacements.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
BRK-250KIT1	Kit Includes: 1 – 250 ml Pad N Pole Repair Adhesive Cartridge; 6 – Mixing Nozzles; 1 – Strip of Sanding Cloth; 6 – Type HP [™] Wet/Dry Wipes (cat #HP-P158ID); 6 – Pairs of Gloves; 6 – Foam Brushes; 1 – 183 cm x 15 cm (72" x 6") Felt Fabric; 1 – Instruction Sheet Dispensing Tool Not Included*	1	
BRK-250KITB6	1 Box with 6 BRK-250KIT1	1	
TOOL-250	1 – Dispensing Tool	1	
MXR-18S-10	10 Pack of Mixing Nozzles	1	

*A standard high-ratio caulking tool should be used to dispense product.

Contents of the BRK-250KIT1

polywater.com

4

DESIGNED FOR USE IN:

ELECTRICAL

COMMUNICATIONS



SPECIFICATIONS AND APPLICATIONS

• Applications: Polywater Pad N Pole is perfect for repairing electrical enclosures, transformer pads, fiberglass light poles, PVC and fiberglass conduit, and riser poles. The felt in the kits can be custom cut to cover and mold to various types of damage. Multiple layers can be applied for increased strength over large areas.

Repair Time: Pad N Pole Repair is quick and easy to install. The mixed resin has 30 minutes working time at 21°C (70°F). The adhesive bonds to fiberglass, steel, polyethylene, metal, concrete, and composites. It can be painted immediately after application, eliminating the need for a return visit. Repairs reach full strength in 12 hours.

• **Temperature:** Repairs can withstand exposure to extreme outdoor temperatures, from -50°C to 82°C (-60°F to 180°F).

Folywater Dura-Plate[™] 100

EPOXY MORTAR



High-Strength Protectant of Concrete and Masonry Surfaces from Erosive Chemical Sources



FEATURES AND BENEFITS

• STRONG Excellent adhesion to concrete, PVC, polyethylene, wood, and metals

• DURABLE Excellent resistance to hydrogen sulfide, and sulfuric acid

NON-SAGGING Great for vertical and

overhead applications

- TROWELABLE The 3-part thixotropic resin system spreads with ease and sets firm when finished
- EASY APPLICATION **Requires no primer**

Gives Concrete a Protective Shield

When cured, Polywater[®] Dura-Plate[™] 100 Epoxy Mortar forms a high-strength, acid-resistant, protective seal coating for sanitary sewer lift stations, manholes, and other structures. It is impermeable to water and resistant to attack by hydrogen sulfide and acid generated by microbiological sources. It is safe to use and contains no VOCs (Volatile Organic Compounds).

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
EM-KIT640	Kit Includes: Resin Part A – 3.8 L (1 gal) Can Hardener Part B – 3.8 L (1 gal) Can Sand Filler Part C Sika Color Pack	1	



The 3-part resin system mixes quickly and easily with no elaborate setup

- Grime-Away Wipes.



SPECIFICATIONS AND APPLICATIONS

• Use: Polywater Dura-Plate 100 Epoxy Mortar is a 3-part thixotropic resin system packaged in a pail kit with a Sika Color Pack. Good surface preparation is critical. Mix only complete batches until blend is a uniform color. Do not thin with solvents.

• Safety: Use of eye protection and protective gloves is recommended.

• Cleanup: Clean uncured material from equipment with Grime-Away[™] Multi-Purpose Cleaning Wipes or Type HP[™] Cleaner. Remove cured material mechanically. Clean hands with soap and water or

• Installation Temperature: 4°C to 50°C (45°F to 120°F)

• In-service Temperature: -40°C to 120°C (-40°F to 250°F)

Folywater UPR[™]

WOOD UTILITY POLE REPAIR



Restore, Protect, and Extend the Life of Wood Utility Poles Easily and Reliably

DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

• EXPANDS Sealant completely fills irregularshaped cavities

ADHERES Integrates with wood

- HARDENS Cures to the strength of wood poles
- GAFFABLE Safely holds climbing spikes or gaffs
- **QUICK MIXING** Two-part formula mixes in nozzle when applied

Prevent Unplanned Outages or Safety Hazards

Polywater[®] UPR[™] makes it easy to repair woodpecker damage, cracks, and pole line hardware holes on wood utility poles. The resin and hardener are specially formulated to expand and fill irregular-shaped cavities to protect poles from rot and restore the pole to a secure condition. UPR is available in two versions and several kit options to address different types of damage.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
UPR-NFKIT4	Kit Includes: 4 – 250 ml UPR No Flow Pole Repair Cartridges; 6 – Mixing Nozzles; 1 – Roll of Stretch Wrap; 1 – Pair of Gloves; 1 – Instruction Sheet	1
UPR-NFKIT12	Kit Includes: 12 – 250 ml UPR No Flow Pole Repair Cartridges; 18 – Mixing Nozzles; 1 – Roll of Stretch Wrap; 3 – Pairs of Gloves; 1 – Instruction Sheet	1
UPR-NF6B10	Kit Includes: 10 – 600 ml UPR No Flow Pole Repair Side-By-Side Cartridges; 10 – Mixing Nozzles; 1 – Roll of Stretch Wrap; 3 – Pairs of Gloves; 1 – Instruction Sheet	1
UPR-NF250PT1	Kit Includes: 2 – 250 ml UPR No Flow Pole Repair Cartridges; 1 – 46 cm x 46 cm Canvas; 50 – 1.27 cm (0.5") Staples; 1 – Pair of Gloves; 1 – Instruction Sheet	1
TOOL-250	1 – High-ratio 250 ml Caulking Tool	1
TOOL-600	1 – High-ratio 600 ml Caulking Tool	1
UPR-PRKIT3	Kit Includes: 3 – 250 ml UPR PR Cartridges; 4 – Mixing Nozzles; 5 – Green-treated Wood Blocks; 1 – Roll of Stretch Wrap; 1 – Pair of Gloves; 1 – Instruction Sheet	1
UPR-PRKIT12	Kit Includes: 12 – 250 ml UPR PR Cartridges; 16 – Mixing Nozzles; 18 – Green-treated Wood Blocks; 1 – Roll of Stretch Wrap; 4 – Pairs of Gloves; 1 – Instruction Sheet	1



- compared to wood.

• Compatibility: Can be used to repair penta-treated wood, western red cedar, Douglas fir, red pine, southern yellow pine, lodgepole pine poles, and other varieties of wood.



SPECIFICATIONS AND APPLICATIONS

• Available in two types: The "NF" is a quick-gel version that will not leak or drip out of wood cracks at the bottom of the hole. The "PR" version is a liquid formula that flows around wood-block fillers to save material.

• Strength and Gaffability: UPR has good compressive strength, comparable to wood. When tested with a gaff, it holds well. The gaff penetrates to an acceptable depth with similar force



Cleaners

To address specific challenges in the electrical, communications, and sewer/water industries, we created an entire line of specialty cleaners. Our variety of packaging options are designed to ensure ease of use and operational safety for workers in the field.



Polywater Cleaners:

- Prepare All Types of Cables
- Protect and Extend the **Equipment (PPE)**
- Maintain and Prolong the
- Clean and Coat Insulated
- Prepare Polyethylene (PE) **Pipe Prior To Fusion**
- Increase Output of Solar Panels



for Splicing or Termination

Life of Personal Protective

Life of Essential Equipment

Fiberglass Tools and Trucks



Polywater Type HP[™]

MULTIPURPOSE SOLVENT CLEANER



The Most Versatile Cleaner for Electrical Construction and Maintenance Needs



FEATURES AND BENEFITS

 MULTIPURPOSE One cleaning solvent for electrical applications

 HIGH SOLVENCY Excellent for cable splice preparation and electrical equipment cleaning

- **NO RESIDUE** Evaporates completely, leaving no residue
- NON-CONDUCTIVE Will not short across typical electrical voltages
- SAFE

Replaces chlorinated electrical cleaners. No carcinogens

The Industry's Preferred Electrical Cleaner

Polywater[®] Type HP[™] is our most popular electric cleaner for cable splice preparation, cable termination, and electrical apparatus maintenance. HP fits the needs of electrical utilities, line contractors, and medium voltage crews that need to comply with regulatory and safety requirements. Type HP is available in a wide range of bulk and kit packaging options to meet various use cases.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
HP-1	Saturated 20 cm x 30 cm (8" x 12") Wipe	144
HP-P158ID	Tandem Pack™ Wet/Dry 13 cm x 20 cm (5" x 8") Wipe	144
HP-3PS	PEL-PAC [®] Kit Contains: 3 – HP-P158ID Wet/Dry Wipes; 1 – Strip 120 Grit Non-conductive Sanding Cloth	10
HP-P63	PEL-PAC [®] Kit Contains: 6 – HP-P158ID Wet/Dry Wipes; 3 – Strips 120 Grit Non-conductive Sanding Cloth; 1 – Instruction Card	12
HP-T369	PEL-PAC [®] Kit Contains: 3 – Saturated 15 cm x 23 cm (6" x 9") Wipes in a Tin	24
HP-T369/S	Same as Kit Above; with Sanding Cloth	24
HP-T369/S-D	Same as Kit Above; Includes Dry Towel	24
HP-D72	72-Count Dispenser of 25 cm x 30 cm (10" x 12") Wipes	6
HPY-12	475 ml (16 oz) Aerosol Can	12
HP-16LF	475 ml (1 pt) Bottle with Flip Top	12
HP-35LF	0.95 L (1 qt) Bottle with Flip Top	12
HP-128	3.8 L (1 gal) Jug	4
HP-640	18.9 L (5 gal) Can	1
HP-DRUM	208 L (55 gal) Drum	1



SPECIFICATIONS AND APPLICATIONS

- Leaves no residue.

4

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DESIGNED FOR USE IN:

ELECTRICAL

COMMUNICATIONS



• Cable Compatibility: Meets the standard electrical utility test requirements based on IEEE 1493 cable cleaning standard.

• **Dielectric Strength:** >40kV at a 100 mil gap per ASTM D877 standard test method.

• Flash Point: >60°C (>140°F) per ASTM D93 standard test method.

Polywater Type RP[™]

FAST-EVAPORATING CABLE CLEANER



Safe and Efficient HV/MV Cable Preparation and Multipurpose Cleaner



FEATURES AND BENEFITS

- FAST ACTING Evaporates quickly and leaves no residue
- CONVENIENT Practical packaging for fast, easy electrical cleaning
- SAFE Excellent alternative to volatile halogenated solvents
- TESTED High dielectric strength of 56kV meets IEEE 1493
- PROVEN Approved by medium voltage cable manufacturers

Effective Cable Cleaner

Polywater[®] Type RP[™] cable cleaner evaporates quickly, and is noncarcinogenic and safe for the environment. Available in several convenient packages to make electrical cleaning and maintenance safe and easy. The lint-free PEL-PAC[®] wipes and prepackaged single wipes limit solvent exposure and waste, and easily fit in tool bags and splicer kits.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
RP-1	Saturated 13 cm x 20 cm (5" x 8") Wipe	96
RP-1L	Saturated 20 cm x 30 cm (8" x 12") Wipe	144
RP-P63	6 – Type RP Cleaning Wipes (cat # RP-1); 3 – Strips of Sanding Cloth; 1 – Instruction Sheet	12
RP-16*	475 ml (16 oz) Aerosol Can	12

*Best suited for cleaning busbars, transformer oils, switchgear, meters, and electric motors. It also satisfies numerous other degreasing needs.

- Leaves no residue.



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DESIGNED FOR USE IN:

ELECTRICAL



SPECIFICATIONS AND APPLICATIONS

• Cable Compatibility: Meets the standard electrical utility test requirements based on IEEE 1493 cable cleaning standard.

• **Dielectric Strength:** >56kV at a 100-mil gap per ASTM D877 standard test method.

• Flash Point: -7°C (20°F) per ASTM D93 standard test method.

Polywater Type KC[™]

CONTACT AND EQUIPMENT CLEANER



Fast-Acting, Precision Cleaning for Sensitive Electronics and Energized Electrical Equipment

DESIGNED FOR USE IN:



FEATURES AND BENEFITS

- NO RESIDUE **Evaporates completely**
- NON-CONDUCTIVE Will not short across typical electrical voltages
- NO FLASH POINT Safe and nonflammable
- COMPATIBLE Suitable to use on most types of plastic, metal, and rubber
- SAFE **Replaces chlorinated** electrical cleaners

Clean Sensitive Electronics with Confidence

Polywater[®] Type KC[™] effectively cleans busbars, breakers, controls, switches, substation relays, meters, traffic control electronics, cables, and circuit boards. Type KC has low volatile organic compounds and contains no ozone-depleting chemicals or known or suspected carcinogens. It is safer to use in confined spaces compared to chlorinated solvents.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
KC-16*	475 ml (16 oz) Aerosol Can	12	

*NOT AVAILABLE IN EUROPE AND MIDDLE EAST



SPECIFICATIONS AND APPLICATIONS

- Flash Point: None
- Leaves no residue.



Polywater

lectrical and nmunications ision Cleaner

No Flash Point

ast Evaporating



• **Dielectric Strength:** >25kV at a 100-mil gap per ASTM D877 standard test method.

Polywater Type FD[™]

ELECTRICAL CONTACT CLEANER



Fast-Drying, Multipurpose Cleaner for Electrical and Industrial Use

DESIGNED FOR USE IN:



FEATURES AND BENEFITS

• FAST EVAPORATING

Saves time and ensures moisture does not compromise electrical contacts or the splice

MULTIPURPOSE

One cleaning solvent for routine maintenance and electrical services

• COMPATIBLE

Does not corrode or stain metal and is safe to use with most plastics

NON-CONDUCTIVE

Will not short across typical electrical voltages

APPROVED

By medium and high voltage cable manufacturers

Versatile Cleaner with Excellent Properties

Polywater[®] Type FD[™] is excellent for cleaning everything from busbar to splices, contacts, meters, communication radios, and cable during the terminating process. Type FD removes semi-conductive residue, adhesive, silicone grease, grime, tars, adhesives, lubrication fluids, fluxes, antioxidants, and contaminants without leaving residue.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
FD-9*	475 ml (16 oz) Aerosol Can	12	

*NOT AVAILABLE IN EUROPE AND MIDDLE EAST



SPECIFICATIONS AND APPLICATIONS

- D130 and D1729.

- Leaves no residue.



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DANGER

130

Electrical Contact Cleaner

FD



• Cable Compatibility: FD Electrical Contact Cleaner will not corrode or stain metal parts. It does not tarnish or corrode copper per ASTM

• Dielectric Strength: 36kV per ASTM D877 standard test method.

• Flash Point: -5°C (~20°F) per ASTM D56 standard test method.

Polywater **EFW[™] Wipes**

CLEANER FOR POLYETHYLENE (PE) FUSION



Essential Cleaning Wipe for Post Peeling or Scraping



FEATURES AND BENEFITS

- EXCEEDS INDUSTRY STANDARDS Contains 99.8% anhydrous isopropyl alcohol
- GOOD SOLVENCY Removes mud, dirt, and other contaminants from elbows, Ts, saddles, and MET fittings
- LARGE CLEANING WIPE Easier to handle and cleans larger areas
- SUPPORTIVE

Best choice to use after peeling, scraping, or cutting, as it evaporates quickly and leaves no residue

EFFECTIVE CLEANER

Consistent and strong high-density polyethylene (HDPE) fusion splices

Comply with Industry PE Fusion Standards

A critical step prior to the electrofusion process, Polywater EFW Wipes clean the PE pipe surface after the peeling, scraping, shaving, or cutting of gas, water, and sewer pipes. When VOC regulations do not allow the use of alcohol, the Polywater ACE[™] acetone wipe is the best industry alternative. This water-free solvent wipe also offers excellent cleaning with no residue.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
EFW-1	Saturated 13 cm x 20 cm (5" x 8") Wipe	50	
ACE-1L	Saturated 25 cm x 30 cm (10" x 12") Wipe	100	



Effectively removes contaminants prior to electrofusion.

Polywater

Type EFW

99.8% Anhydrous Isopropanol Wipe

inting, non-abrasive, and

leaves no residue.

 $(\mathbf{0})$

GAS



SPECIFICATIONS AND APPLICATIONS

Methodology: Numerous industry organizations and equipment and tool manufacturers agree that a wipe containing at least 96% isopropyl alcohol should be used in the PE fusion process. Cleaning after the peeling, scraping, shaving, and cutting process is critical to create the best possible connection.

• **Proper Training:** Cleaning contaminants off the pipe prior to cutting, peeling, or scraping is also recommended. All contaminants such as directional drilling fluids, dirt, cutting fluids, and markers that contain oils can affect the fusion process.

Caution: Crews that use <96% anhydrous isopropyl, or utilize bulk containers versus pre-saturated wipes, risk contaminating the alcohol. Isopropyl alcohol is hygroscopic. When containers are left open for periods of time the alcohol absorbs and is diluted by water, again affecting the PE fusion process.

Polywater Grime-Away[™]

HEAVY-DUTY CLEANING WIPES



Powerful and Convenient Removal of the Toughest Grime on Equipment, Tools, Work Surfaces, and Hands

Grime-Away Multi-Purpose Cleaning Wipe Moisturizes and softens hands while cleaning transformer oils, ntioxidant compounds, silicone greases, dirt, and other grime from tools and surfaces. Polywater

FEATURES AND BENEFITS

 SUPERIOR CLEANING POWER Removes the toughest kind of dirt, grime, gels, and greases

DUAL-SIDED DESIGN

Ensures thorough cleaning with rough texture on one side for scrubbing and smooth on the other side for wiping

DURABLE PACKAGING

Rugged canister keeps wipes moist and is easy to store in outdoor or work vehicle bins

MOISTURIZING

Softens and moisturizes skin while being tough on grime

Tough on Dirt, but Field Friendly

Polywater[®] Grime-Away[™] quickly and effectively removes hydraulic fluids, silicone greases, and adhesives from transformers, vehicles, heavy machinery, tools, and hands for a clean and safe working environment. Its unique water-based formulation is especially safe on skin, unlike most other tool and hand cleaners. Grime-Away is available in a multiple-use, 72-count canister or individual wipes that store easily in tool pouches or lineman bags.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
HTC-D72	72-Count Dispenser of 25 cm x 30 cm (10" x 12") Premoistened Wipes	6
HTC-1	Saturated 25 cm x 30 cm (10" x 12") Wipe	144









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DESIGNED FOR USE IN:

ELECTRICAL

COMMUNICATIONS



SPECIFICATIONS AND APPLICATIONS

• Physical and Electrical Properties: Tested and approved for compatibility with rubber-insulating gloves under Salisbury by Honeywell's Criteria for Evaluating Chemicals in Contact with Salisbury Natural Rubber Lineman Equipment, Salisbury approves Grime-Away for cleaning hands that then contact insulating gloves (not for use on the gloves themselves). Document available upon request.

• Insulating Rubber Goods: To clean rubber-insulating line hose, grounds, blankets, sleeves, and gloves use Polywater[®] Type RBG™ Rubber Goods Cleaner.

Polywater S-1[™]Wipe

HOT STICK CLEANER AND WATER-REPELLENT WIPE



For the Protection and Safety of Live-Line Tools



FEATURES AND BENEFITS

• EFFECTIVE

Removes grease, dust, and grime while leaving a protective silicone layer

GEL COAT SAFE

Does not remove or affect the gel coat on sticks

COMPLIANT

Meets IEEE Std #978 and OSHA 29 CFR Part 1910 guidelines

• WATER REPELLENT

Silicone coating prevents continuous conductive water film on stick in wet weather

CONVENIENT

Clean and protect with onetime-use towelettes

Safeguard Your Live-Line Tools

Use Polywater[®] S-1[™] as part of the daily requirement to inspect and wipe hot sticks clean prior to each use. The wipe safely removes contaminants from hot sticks that contribute to tracking hazards, and also leaves the equipment with a protective coat. S-1 is effective at cleaning telescoping sticks so they glide into position without sticking.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
S-1	Saturated 20 cm x 30 cm (8" x 12") Wipe	144	





4



SPECIFICATIONS AND APPLICATIONS

• Versatile: S-1 wipes improve insulating performance after cleaning and protecting clamp sticks, hot sticks, bracing arms, cutters, and jumper holders.

• Safety Guidelines: Existing regulations mandate that "each live-line tool shall be wiped clean and visually inspected for defects before use each day," noting that a hot stick can become electrically unsafe because of a combination of wetting, surface contamination, and a loss of surface gloss. The best defense against accidents is a clean, glossy stick that causes water to bead up.

• IEEE Maintenance Standard #978: States the best way to clean a stick is to use isopropyl alcohol followed by a silicone wiping cloth. The S-1 cleverly combines both alcohol and silicone in a one-step process.

Polywater **BOOM[™]** Prewash Wipes

CLEANER FOR INSULATED BUCKET TRUCKS



Strong and Safe Cleaner Removes Residues that Cause Tracking

DESIGNED FOR USE IN:

COMMUNICATIONS

ELECTRICAL

FEATURES AND BENEFITS

POWERFUL

Removes grease, grime, tar, creosote, hydraulic fluid, salt, pine pitch, insects, and road debris before rinsing

GEL COAT SAFE

Will not remove or adversely affect the gel coat

APPROVED

Bucket truck manufacturer recommended

CONVENIENT

Pre-saturated cleaning wipes designed for overall or spot cleaning

BIODEGRADABLE

Water soluble and solvent free

Maintain Equipment to Work Safely

Polywater[®] BOOM[™] Prewash Wipes powerfully and safely clean fiberglass boom arms, insulators, and buckets to prevent tracking hazards from unwanted contaminants. It is water soluble and washes off during water rinsing. BOOM is available in several packaging options to fit your cleaning and safety needs.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
B-1	Saturated 71 cm x 71 cm (24" x 24") Towel	24
B-D72	72-Count Dispenser of 25 cm x 30 cm (10" x 12") Wipes	6

- working order.

Polywate

BOOM

Catalog #: B-D72

4



SPECIFICATIONS AND APPLICATIONS

• **Testing:** Companies should follow boom truck manufacturer guidelines on the frequency of dielectric testing, proper cleaning practice, and other maintenance procedures. The ANSI A92.2-1990 Standard (Section 5.4.3) also addresses proper dielectric testing intervals and field inspections for aerial truck testing.

• Guidance: Common degreasers or solvents can harm and strip the gel coat on the boom, causing weak or soft spots. Many crews have access to solvents and know how well these solvents remove grease, but many of those solvents can be harmful to the fiberglass portion of the boom arm or bucket. Some cleaners contain abrasives and leave a considerable residue. Others, like acetone, xylene, and toluene, can cause permanent damage if left in contact with the surface too long. These solvents are also flammable and often hazardous. Personnel should be trained to use only BOOM Wipes for the boom and bucket areas to keep the truck in proper

• Protect: After cleaning a boom or bucket truck with BOOM Wipes, the fiberglass areas should be treated with Polywater Wax to protect the gel coat surface. Available in bulk 475 ml bottles (W-16) or presaturated wipes (W-1).

Polywater Type RBG[™]

WATER-BASED RUBBER GOODS CLEANER



Reduce Tracking and Restore Visibility

Polywater[®] Type RBG[™] Rubber Goods Cleaner is specially formulated for removing grease, dirt, carbon, creosote, hydraulic fluid, and other grimes from insulating blankets, lineman's gloves, rubber sleeves, jumper cables, hot jumpers, and line hose. It works well as a daily cleaner to maximize the life of equipment and keep workers safe.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
RBG-D72	72-Count Dispenser of 25 cm x 30 cm (10" x 12") Premoistened Wipes	6
RBG-1	Saturated 20 cm x 30 cm (8" x 12") Wipe	144
RBG-35LR	0.95 L (1 qt) Bottle with Sprayer	12
RBG-128	3.8 L (1 gal) Jug	4
RBG-640	18.9 L (5 gal) Pail	1

Available in convenient packaging to make it easy to use in the field, tool rooms and in testing facilities.

Safely Cleans EPDM and Natural Rubber Insulating and Personal Protective Equipment (IPE & PPE) Products

DESIGNED FOR USE IN:

4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

• RESTORES AND RENEWS

Restores high visibility to brightcolored rubber goods, reducing risks in inclement weather and in areas with overgrown vegetation

INCREASES RELIABILITY

Uncovers hidden damage in equipment like nicks, cuts and abrasions before field work

COMPATIBLE

Does not affect dielectric properties of EPDM and natural rubber insulated equipment.

SAFE ON SKIN

Contains no hazardous ingredients and is pH neutral to make it safe for skin contact



SPECIFICATIONS AND APPLICATIONS

- available on request.
- (ASTM F496).

Rubber Goods

Cleaner



• Independent Testing: Tested by an independent NAIL® for PET (North American Independent Laboratories for Protective Equipment Testing) accredited laboratory in accordance with ASTM F496, "Standard Specification for In-Service Care of Insulating Gloves and Sleeves." Test data

Compatibility: Passes all tests regarding synthetic and natural rubber in accordance with the ASTM and OSHA standards.

 Performance Properties: Passes Rubber Property—Effect of Liquids (ASTM) D471) and Specification for In-Service Care of Insulating Gloves and Sleeves

 Safe: Not a Resource Conservation and Recovery Act (RCRA) regulated hazardous waste.

77:

Polywater **Fiberglass Wax & Buff Kit**

FIBERGLASS WAX FOR GEL-COATED INSULATED EQUIPMENT



Protect and Maintain the Safe Operation of Hot Sticks and Insulated Boom Trucks



FEATURES AND BENEFITS

PROTECTS

Does not remove or affect gel coat. Leaves non-conductive, waterrepellent coating

RESTORES

Brings back luster and helps to protect gel coat

- FAST ACTING Wax applies easily and hazes quickly
- CONVENIENT Dual-action tandem pack-waxsaturated wipe and dry buffing towel
- COMPLIANT

Meets IEEE maintenance recommendations (Std #978)

Regular Maintenance is the Key to Safety

The Polywater® Fiberglass Wax & Buff Kit is designed to help keep equipment safe and companies compliant as part of regular live line tool and insulated boom truck inspection and cleaning processes. The carnubabased wax is formulated to restore the luster of the insulated fiberglass equipment and to help protect the gel coat from degradation.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
W-1	Saturated 20 cm x 30 cm (8" x 12") Wipe with Dry Buffing Towel	72	
W-16	475 ml (16 oz) Can	12	



• Best Practice: Once a boom has been properly cleaned with Polywater[®] BOOM[™] Prewash Wipes, Polywater Wax should be used. This will protect the gel-coat surface and force water beading during misty or wet weather. All products used on boom trucks, including cleaners and protectants designed specifically for fiberglass booms, should be approved by the aerial lift manufacturer. Polywater products are approved by boom truck manufacturers. Refer to our boom truck cleaning and maintenance best practice for more detailed information to keep fleets in proper working order.

• Industry Recommendations: Companies should follow boom truck manufacturer guidelines on the frequency of dielectric testing, proper cleaning practice, and other maintenance procedures. The ANSI A92.2-1990 Standard (Section 5.4.3) also addresses proper dielectric testing intervals and field inspections for aerial truck testing. Follow manufacturer and industry guidelines on the maintenance of boom trucks for safe and long-lasting aerial fleets.

-112

DESIGNED FOR USE IN:

ELECTRICAL



SPECIFICATIONS AND APPLICATIONS

Polywater Type SPW[™]

WATER-BASED SOLAR PANEL CLEANER



An Effective Cleaner that Maximizes Power Production and Prolongs the Life of Photovoltaic (PV) Panel Installations



FEATURES AND BENEFITS

 SAFE ON EQUIPMENT Does not degrade panel hardware or anti-reflective films

- PROLONGS PANEL LIFE Keeps panel surface clean to increase output and prevent panel hotspot damage
- ECONOMICAL Reduces water use and cleaning costs
- **ENVIRONMENTALLY FRIENDLY** Will not harm local water sources or plant life
- EFFECTIVE Removes contaminants that water alone cannot

Maintain and Maximize Power Production

Polywater[®] SPW[™] is a highly concentrated, non-solvent compound that leaves panel surface areas clean and clear, eliminating potential hotspot damage. Panels cleaned with SPW maximize power generation and economic return of your PV installation. SPW cleans a wide range of contaminants and has been proven to clean better than conventional cleaning products, reducing the need for cleaning frequency.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
SPW-35HS*	0.95 L (1 qt) Bottle with Sprayer	12
SPW-35LF	0.95 L (1 qt) Bottle	12
SPW-128	3.8 L (1 gal) Jug	4
SPW-640	19.0 L (5 gal) Pail	1
SPW-DRUM	208 L (55 gal) Drum	1

*English measure threads on hose attachment. Metric conversion connectors required.



SPECIFICATIONS AND APPLICATIONS

- cleaning systems.
- water/SPW mixture
- water expense



4



• Automated Cleaning: Enhance effectiveness of semi-automated

• **Recycling Systems:** Reduce costs and H₂O use by recycling

DI & RO Water: Reduce or eliminate deionized or reverse osmosis

• Cleans Many Contaminants: Effectively cleans dust, pollen, diesel film, industrial pollution, and other common contaminants.

• Environmentally Friendly: Non-persistent per OECD (Organization for Economic Cooperation and Development) Guidelines. Safe for local plant life and water sources.

• Manufacturers' Approvals: SPW use is approved by many of the largest global PV panel manufacturers in the world.

Polywater SqueekyKleen[™]

FIBER OPTIC AND COPPER CABLE GEL REMOVER



Fast and Effective Gel Remover for Loose Tube and Ribbon Cable



FEATURES AND BENEFITS

• EFFECTIVE

Completely dissolves a wide range of filling and flooding gels

• FAST

Removes gel and fans fibers with only two swipes

RESIDUE FREE

Leaves no gel residue behind to remove

COMPATIBLE

Will not harm acrylate, mylar, nor ribbon fiber materials

FIELD APPROVED

Recommended by users in the field and cable and splicing equipment manufacturers

More Efficient and Safe Splicing

Polywater[®] SqueekyKleen[™] quickly removes gels, leaves no residue, and fans fiber with just two swipes making cable preparation more efficient. Creates a safer working environment than alcohol with lower vapor concentrations and is gentler on splicers' hands. SqueekyKleen is available in various sizes and convenient packages, from single saturated towelettes to bulk liquid, to meet your needs.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
TC-1	Saturated 21.6 cm x 27.9 cm (8.5" x 11") Wipe	144
TC-D300	300-Count Dispenser of 12.7 cm x 15.2 cm (5" x 6") Premoistened Towelettes	6
TC-16LF	475 ml (16 oz) Bottle with Flip-top	12
TC-35LF	0.95 L (1 qt) Bottle with Flip-top	12
TC-96	2.8 L (3 qt) in 3.8 L (1 gal) Pail	4
TC-128	3.8 L (1 gal) Jug	4
TC-640	18.9 L (5 gal) Pail	1
TC-DRUM	209 L (55 gal) Drum	1

SPECIFICATIONS AND APPLICATIONS

- shall be <75 ppm.

DESIGNED FOR USE IN:



• Cleaning: When wiping a 1-meter section of 12-count fiber from a buffer tube, a saturated towelette will squeak and fan fibers with 2 swipes.

• Solvency Power: At 20°C (68°F), it will dissolve a 0.5 mm (0.02") film of PE/ PJ or ETPR grease completely from cable jacket with less than two minutes of vigorous agitation (no wiping).

• Water Content: When tested by the ASTM D1533B method, water content

• Flash Point: When tested via a Pensky-Martin Closed Cup Test (ASTM D93), the cleaner shall have a flash point above 60°C (140°F).

Polywater HydraSol®

CABLE GEL REMOVER



Safe and Effective Cleaner for Removing Cable Filling Compounds



FEATURES AND BENEFITS

• POWERFUL

Maximum solvency power that is fast and effective on PE/PJ or ETPR greases

• EASY TO CLEAN Rinses completely with water

- SAFE No chlorinated solvent, CFC, or glycol ether content
- EFFICIENT

Good for multiple cleanings, thus less waste

CONVENIENT

Available in a variety of convenient packages tailored for the job

A Unique Approach in Cable Cleaning Materials

Polywater[®] HydraSol[®] is a non-flammable, water-based solvent cleaner that effectively cleans copper and fiber gel-filled cables. This cleaner quickly dissolves and removes cable filling greases (ickypic) and is safer to use than other solvent-based cleaners. HydraSol is available in multiple package types to cover all cleaning needs.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
HS-1*	Saturated 25 cm x 30 cm (10" x 12") Wipe	144
HS-D72*	72-Count Dispenser of 25 cm x 30 cm (10" x 12") Premoistened Towelettes	6
HS-16LR*	475 ml (1 pt) Spray Bottle	12
HS-32LR*	0.95 L (1 qt) Spray Bottle	12
HS-32*	0.95 L (1 qt) Bottle with Flip Top	12
HS-96*	2.8 L (3 qt) in a 3.8 L (1 gal) Pail	4
HS-128*	3.8 L (1 gal) Jug	4
HS-384*	11.4 L (3 gal) in a 18.9 L (5 gal) Pail	1
HS-640*	18.9 L (5 gal) Pail	1
HS-DRUM*	209 L (55 gal) Drum	1

*NOT AVAILABLE IN EUROPE

SPECIFICATIONS AND APPLICATIONS

- safety and handling.
- compounds.



• Water-Based Cleaner: Over 50% water-based solvent cleaner for unique

• Low Toxicity: Components have low toxicity whether by inhalation or dermal exposure, making it safe for use in vaults and confined spaces.

• Effectiveness: Using the Solvency Power Test Method, HydraSol outperformed isopropanol and other competitors' products in cleaning effectiveness and efficiency on multiple types of gels and flooding

• Easy to Use: Rinses easily off hands and tools. Dissolved grease is not redeposited as the cleaner residue dries.

• Flash Point: 68°C (155°F), Closed Cup (PMCC).

Polywater QuicKleen[™]

FIBER OPTIC ENDFACE CLEANER



Fast-Acting Cleaner for Ferrules, Bulkheads, and Fiber Endfaces



COMMUNICATIONS

EFFECTIVE

Cleans fiber endfaces to minimize signal loss and maximize connectivity

EVAPORATES QUICKLY

Ready to reinsert or connect immediately after cleaning

NO RESIDUE

No streaking ensures complete light transmission

VERSATILE

Cleans multi-mode and single-mode and suitable for all glass fiber, including 1625 nm

NO FLASH POINT

Safe for operating personnel. Not regulated for air transport.

Maximize Optical Network Performance

Polywater[®] QuicKleen[™] is a unique solvent blend that cleans completely, evaporates quickly, and leaves no residue. It is available in a convenient 60 ml spray bottle as part of an all-inclusive kit. QuicKleen works conveniently with nonwoven, highly absorbent Polywater[®] FiberKleen[™] towelettes to trap and remove dirt, making cleaning easier and more effective.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
QC-2LP	60 ml (2 fl oz) Bottle with Pump Sprayer	12
QC-KIT2	2 – QC-2LP; 1 - DT-D175; 1 – SWB-250F100; Travel Bag	1
DT-D175	175-Count Dispenser Pack of Microfiber Towelettes with Cleaning Pad	12
DT-D175R	175-Count Microfiber Towel Refill for DT-D175	6
SWB-250F100	2.5 mm FiberKleen Foam Swab (100/pack)	5
SWB-125F10	1.25 mm FiberKleen Foam Swab (10/pack)	5
SWB-C100	FiberKleen Cotton Swab (100/pack)	5
SWB-V100	V Groove FiberKleen Foam Swab (100/pack)	5
SWB-M100	Mirror FiberKleen Foam Swab (100/pack)	5

- Products".
- flammable.

Quicklee

QC

astest evaporating cleaner

for fiber optics.

Fastest Evaporating No Flash Point **High Purity** No Residue



SPECIFICATIONS AND APPLICATIONS

• Testing Standards: Passes the rigorous standards of Telcordia GR 2923-CORE, "Generic Requirements for Fiber Optic Connector Cleaning

• Safety: Minimal toxicity and contains no listed carcinogens. Cleaner is non-

• Compatibility: Compatible with most common plastics and rubbers.

• Temperature Use Range: -5°C to 50°C (20°F to 120°F).

Polywater AquaKleen[™]

WATER-BASED FIBER OPTIC CLEANER



Cleaner for Fiber Optic Termination, Splicing, and Maintaining Fusion Splicing Units

DESIGNED FOR USE IN:

COMMUNICATIONS

FEATURES AND BENEFITS

NO RESIDUE

Made with pure deionized water so there is no residue after evaporation to affect light transmission

MAINTAINS EQUIPMENT

Prolong the life of costly fiber-splicing units by cleaning heat strippers, V-grooves, and camera lenses

NO TOXIC FUMES

No exposure to irritating solvent vapor like other common cleaners

SAFE FOR SHIPMENT

No hazardous restrictions via land or air shipping

NONFLAMMABLE Safe to use

Innovative Water-Based Technology

Polywater[®] AquaKleen[™] Cleaner is the safe solution for maintaining clean fiber connections. It is a special blend of 90%+ deionized water and soluble cleaning solvents. It is safer than pure solvents and leaves no residue after evaporation. Conveniently packaged in a small dropper or spray bottle, it works well with lint-free Polywater[®] FiberKleen[™] towelettes—making cleaning easier and more effective.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
AQ-2LP	60 ml (2 fl oz) Bottle with Pump Sprayer	12	
AQ-2DR	60 ml (2 fl oz) Bottle with Dropper Tip	12	
AQ-35LF	0.95 L (1 qt) Bottle with Flip-top Cap	12	
AQ-KIT2	2 AQ-2LP; 1 DT-D175; 1 SWB-250F100	1	
AQ-KIT3	2 AQ-2DR; 1 DT-D175; 1 SWB-250F100	1	
DT-D175	175-Count Dispenser Pack of Microfiber Towelettes with Cleaning Pad	12	
DT-D175R	175-Count Microfiber Towel Refill for DT-D175	6	

SPECIFICATIONS AND APPLICATIONS

- Cleaning Products".

Cat # AQ-2DR 2fl oz (57 mL)

AquaKleen

Fiber Optic Clean

Polym



• Testing Standards: Passes the rigorous standards of Telcordia GR 2923-CORE, "Generic Requirements for Fiber Optic Connector

• Safety: Minimal toxicity. Contains no listed carcinogens. Cleaner is nonflammable and environmentally friendly.

• High Performance: Excellent cleaning effectiveness on dry/ionic soil (dust, salt), wet/nonionic soil (oil, buffer gel), or a combination soil.

• Formula: Contains no waxes or greases.

• Temperature Use Range: 0°C to 50°C (32°F to 120°F).

• Compatibility: Compatible with most common plastics and rubbers.

Polywater Type FO[™]

ALCOHOL FIBER OPTIC CLEANER



Type FO Alcohol Wipe

A fast evaporating, mild solvent ipe for cleaning optical surfaces.

Wipe is non-linting, asive, and leaves no residu Contains 99.8%

hydrous Isoprop

Polywate

polywater.com

Water-Free Alcohol Fiber Optic Connector Cleaner

FEATURES AND BENEFITS

- EXCELLENT SOLVENCY Removes oil, dust, and other contaminants
- 99.8% ANHYDROUS ISOPROPYL Water-free for fiber optic cleaning
- LARGE CLEANING WIPE 13 cm x 20 cm wipe means longer working time and more cleaning per wipe
- NO RESIDUE No interference with light transmission
- FAST EVAPORATING Minimal delay before continuing with job

Highest Quality Grade Cleaning Alcohol Made Convenient

Polywater[®] Type FO[™] Fiber Optic Cleaner is great for cleaning glass fiber endfaces for better light transmission performance. It removes dust, oil, and other contaminants, while leaving no residue. Type FO is packaged in several convenient field-friendly options that allow for longer working times, minimized spill potential, and safe vapor exposure.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
FO-1	Saturated 13 cm x 20 cm (5" x 8") Wipe	50
FO-16	475 ml (1 pt) Bottle	12
FO-32	0.95 L (1 qt) Bottle	12
FO-128	3.8 L (1 gal) Jug	4

SPECIFICATIONS AND APPLICATIONS



COMMUNICATIONS

DESIGNED FOR USE IN:

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:90:



• High Performance: Excellent cleaning effectiveness on dry/ionic soil (dust, salt), wet/non-ionic soil (oil, buffer gel), or a combination soil.

• **Compatibility:** Compatible with most common plastics and rubbers.



Specialty

Polywater is known for providing solutions to field-specific problems. A few of these solutions we've made into specialty products that don't fit into our other specific applications.

Specialty Products:

- Polywater[®] Type CG[™] **Cold Galvanizing Spray Prevents Rust and Repairs Metal**
- Polywater[®] IceFree[™] Antifreeze Gel Protects Infrastructure Assets from Ice Damage





Polywater Type CG[™]

COLD GALVANIZING SPRAY



Prevent Rust and Inhibit Corrosion on Metal



4 ELECTRICAL COMMUNICATIONS

FEATURES AND BENEFITS

 PROTECTS Coating contains 95% pure zinc to prevent rust and corrosion

• REPAIR Touch up damaged or exposed galvanized surfaces

- UNIVERSAL Can be used on all ferrous-based metals
- EFFICIENT Nozzle minimizes drips and dries quickly
- SAFE Compatible with plastics and carcinogen free

Actively Fights Corrosion and Rust

Polywater[®] Type CG[™] is an industrial aerosol coating for metal protection and repair. When sprayed on metal it forms a zinc-rich coating that prevents rust and inhibits corrosion through sacrificial galvanic action. It is ideal as a primer or for touch-up and can be used on pole line hardware, conduits, trailers, threads, cut steel apparatus, fasteners, brackets, panels, cabinets, and welds.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
CG-13*	475 ml (16 oz) Aerosol Can	12	
			•

*NOT AVAILABLE IN EUROPE AND MIDDLE EAST



Previously Painted Surfaces: Must be free of oil, grease, and other contamination. For best results, spot blast exposed areas to be coated. Power tool brushing may be used for minor touch-up.

air escapes.

Rohmater

Cold Galvanize

95% Pure Zinc Prevents Rust alvanic Protection

He



SPECIFICATIONS AND APPLICATIONS

• Mil Specifications & Certifications: P-26915A: Type 1 Class A primer for Steel (USAF); DOD-21035A: Zinc Rich Galvanize Repair; P-46105: Weld through Zinc Rich Primer; Salt Fog: Pass 1,000 Hours (ASTM B117); Humidity: Pass 500 Hours (ASTM D2247).

• Temperature Resistance:

121°C (250°F)-Sustained, 149°C (300°F)-Intermittent.

• Surface Preparation:

New Steel: Surface must be dry and free of contamination. Remove all weld splatter and grind all rough welds to a smooth contour. Blast clean per SSPC SP 6-63 to a maximum profile of 1.5 mils (.038mm).

• Usage Instructions: Surface should be dry, 3°C (37°F) above the dew point, with air temperatures greater than 10°C (50°F). Surface must be free of rust bloom. Shake can vigorously until agitator frees. Spray using light, even strokes about 1/2 meter (18 inches) from surface. Several thin coats are recommended. Allow 15 minutes drying time between coats. Final coat should dry thoroughly (up to 24 hours). To avoid clogging nozzle, invert can and spray until only

Polywater lceFree[™]

TOTAL CONDUIT OR VOID ENCAPSULATING ANTIFREEZE GEL



Protects Infrastructure Assets from Ice Formation and Water Ingress

FEATURES AND BENEFITS

- MAXIMIZE PERFORMANCE Minimize fiber optic (FO) network signal attenuation and mechanical functionality of fire suppression systems
- LONG-TERM PROTECTION A single application lasts for multiple years
- **COMPATIBLE** Will not degrade FO jackets, ducts, or valve gaskets
- EASY TO REMOVE Soft gel allows for easy repair or upgrade of infrastructure
- ENVIRONMENTALLY FRIENDLY Will not harm local plant life or water sources

Minimize Loss of Performance of Critical Infrastructure Assets

Polywater[®] IceFree[™] is a specialty, non-freezing gel pumped into ducts containing fiber optic cables susceptible to ice-induced pressure. Such pressure creates micro-bends that increase signal attenuation and loss in FO cables in bridge crossings or vehicle overpasses. It is also used to prevent the freezing of mechanical valves used in outdoor fire suppression or critical infrastructure protection systems.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE	
WS-640	18.9 L (5 gal) Pail IceFree Gel	1	
WS-DRUM	208 L (55 gal) Drum IceFree Gel	1	
WB-86	1 Chemical Duct Block	6	
WB-8	1 Chemical Duct Block	12	
WH-1	122 cm (48") Gel Insertion Hose & Valve Assembly	1	

Available in field-friendly packaging including patented chemical duct block technology.

- diluted over time.



DESIGNED FOR USE IN:

4 ELECTRICAL

COMMUNICATIONS



SPECIFICATIONS AND APPLICATIONS

• Prevent Signal Outages: The IceFree System has protected fiber optic cable in thousands of bridge and highway crossings exposed to freezing temperatures.

• Patented: IceFree is a patented system that contains an antifreeze gel and chemical duct block. The chemical block is employed in FO duct systems to contain the antifreeze gel within the entire length of the duct for long-term network protection.

• Fire Suppression: IceFree is used to ensure the mechanical functionality of valves in outdoor fire suppression systems common in industrial campuses and processing operations.

• Concentrated: Formulated to perform long term even when

Polywater

Product Ordering Notes

Product Questions? Contact Us:

global@polywater.com +1 651-430-2270 TOLL FREE Canada & U.S. only: 800-328-9384 Europe and Middle East: +31 10-233-0578

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Polywater is a leading specialty-chemical manufacturer that helps companies in the electrical and communications industries overcome specific, field-based challenges.



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IMPORTANT NOTICE: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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