Polywater®

FST™ Foam Duct Sealant Family

2-PART, CLOSED-CELL FOAM DUCT SEALANT



A Proven Track Record for Providing Durable and Reliable Protection in the Toughest Environments



Polywater FST is a UL recognized component and passed UL 94 with a Class HBF fire retardant rating

FEATURES AND BENEFITS

- **RELIABLE**
  Holds 22 ft (6.7 m) continuous water head pressure and up to 90-ft (27 m) surges
- **VERSATILE**
  Seals conduits of all sizes and complex cable configurations
- **RE-ENTERABLE**
  Seal can be removed for future cable installations
- **COMPATIBLE**
  Use with a wide range of cable jacket and conduit materials
- **NEC COMPLIANT**
  Creates airtight/watertight conduit seals and is fire retardant

Protects Conduit and Raceway Systems

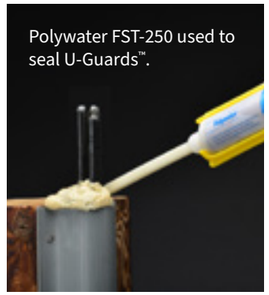
Polywater® FST™ Foam Duct Sealant is used to protect mission-critical electrical and telecommunication systems from water, gases, and other unwelcome intrusions. The closed-cell, foam sealant technology evenly flows around cables and in conduit space to create a strong bond. It expands and completely cures into a rigid, robust seal without relying on environmental moisture.



CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
FST-250KIT1	Kit Includes: 1 – 8.5 oz. FST Cartridge (cat# FST-250); 3 – Mixing Nozzles (cat# MXR-30T-10); 4 – 24” Foam Damming Strips (cat# FST-DAM); 1 – 12” 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 – 8.5 oz. FST Cartridge; 1 – Mixing Nozzle; 1 – Resealing Cap	12
MXR-30T-10	10-Pack of Mixing Nozzles for FST-250	1
TOOL-250	High-Ratio Caulking Tool for FST-250	1
FST-DAM	1 – 24” 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



Polywater FST-250 used to seal U-Guards™.

SPECIFICATIONS AND APPLICATIONS

- **Application:** Polywater FST-250 is recommended for conduits of 2 inches (50 mm) or larger. Polywater FST™ MINI is recommended for conduits less than 2 inches (50 mm).
- **Codes:** Meets most countries’ electrical codes. Creates air/watertight seals and is self-extinguishing. Check local codes for performance criteria. Meets 2011, 2014, 2017, 2020 NEC Articles 225.27, 230.8, 300.5(G), 300.7 (A), 501.15 (b)(2) on Raceway Seals.
- **Materials:** Bonds to PVC, GRS, EMT, IMC fiberglass, and PE conduits.
- **Fire Retardant:** Polywater FST is a UL recognized component and passed UL 94 with a Class HBF fire retardant rating.

Polywater Foam Sealant Quantity Calculator
Perform calculations of how much FST Foam Sealant to use based on conduit ID, cable occupancy, and number of seals.

CALCULATE QUANTITY

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Polywater®

BonDuit®

CONDUIT ADHESIVE



Creates Strong, Watertight and Airtight Bonds with HDPE and Fiberglass Conduit



BonDuit and Bonduit XL are UL recognized and was tested to UL Standard 746C.

FEATURES AND BENEFITS

- **VERSATILE**
  Bonds HDPE to PVC, rigid steel, fiberglass conduits and fittings, and transition couplings
- **SUPERIOR**
  Stronger pullout strength than most mechanical couplings
- **COST EFFECTIVE**
  Less expensive than mechanical couplings
- **CONVENIENT**
  Kits contain all application components required for a quick installation
- **UL RECOGNIZED**
  Helps meet the NEC code regarding PE conduit installations

Creates Strong, Long-Lasting Bonds

Polywater® BonDuit® joins polyethylene duct (PE pipe) to PVC, fiberglass, or metal conduits. It is a superior, easy-to-apply alternative to joining conduits with mechanical couplings. The rapid-cure, two-part resin adhesive forms a strong watertight and airtight seal and delivers a durable bond that can withstand movement and vibration. Ideal for installation along roadsides or near electrical equipment like transformers or switchgear.

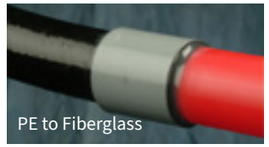




CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
BT-KIT	Kit Includes: 2 – 50 ml Adhesive Cartridges; 8 – Mixing Nozzles; 1 – Strip Sanding Cloth; 8 – Type RP™ Cleaning Wipes (cat# RP-1)	1
BT-KITB6	1 Box with 6 BT-KIT	1
BT-CART12PK	12 – 50 ml Adhesive Cartridges; 36 – Mixing Nozzles	1
TOOL-50-11	1 – Dispensing Tool	1
MXR-12T-10	10-Pack Mixing Nozzles	1
BTXL-250KIT1	1 – 250 ml Adhesive Cartridge; 5 – Mixing Nozzles; 5 – Type RP Cleaning Wipes (cat# RP-1L); 5 – Pairs of Gloves; 1– Strip Sanding Cloth; 1 – Instruction Sheet	1
BTXL-250KITB6	6-BTXL-250KIT1	1
BTXL-250CART12	12 – 250 ml Adhesive Cartridges; 12 – Mixing Nozzles; 12 – Pairs of Gloves; 1 – Strip Sanding Cloth; 1 – Instruction Sheet	1
MXR-25B-10	10-Pack Mixing Nozzles	1
TOOL-250	1 – High-ratio Caulking Tool	1


PE to Steel


PE to PE


PE to Fiberglass

SPECIFICATIONS AND APPLICATIONS

- **Available in Two Types:** BonDuit and BonDuit® XL. BonDuit XL is an excellent option for 3-inch (75 mm) conduits and larger. It helps meet the NEC code for transitioning above ground and to PVC or galvanized rigid steel. BonDuit XL can also be used as a mechanical coupling for conduit diameters higher than 5 inches (125 mm). Both types can be used for indoor and outdoor projects.
- **Compliance:** BonDuit and BonDuit XL are UL recognized adhesives. Both pass testing under UL Standard 746C, "Polymeric Adhesive System for Indoor and Outdoor Use with Electrical Equipment". Meets NEC 352.48, 353.48, and 355.48 for joining PVC, HDPE Polyethylene, and RTRC fiberglass conduit. Both are the perfect choice for transition from underground HDPE pipe to aboveground connections. PVC pipe cement does not bond HDPE (NEC code 353.12.1).

Polywater BonDuit Adhesive Quantity Calculator
Determine the number of adhesive cartridges needed based on the number of connections and the conduit size.

CALCULATE QUANTITY

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Polywater®

PowerPatch® Family

TRANSFORMER LEAK REPAIR SYSTEM



An Economical and Effective Way to Repair Essential Grid Assets and Protect the Environment

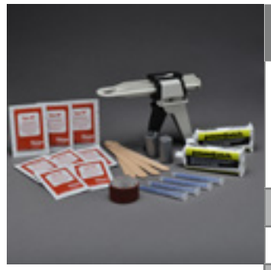


FEATURES AND BENEFITS

- **IN-FIELD REPAIR**
  Fix transformers in the field without having to shut down service
- **STRONG MOISTURE SEAL**
  Protects transformers from accelerated aging
- **HIGH-PRESSURE RESISTANCE**
  Seals leaks on 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

Maximize the Life of Essential Assets

Polywater® PowerPatch® repairs active leaks of oil and SF_6 gas from transformers in the field, without equipment shutdown. Whether repairing small pinholes, cracks, flanges, enclosures, or large areas, its strong material adhesion and fast cure time create a seal that protects transformers from accelerated aging and reduces costly unplanned outages and environmental risks.





Contents of the Polywater PowerPatch EP-KIT11.

CATALOG #	PACKAGE DESCRIPTION	UNITS/CASE
EPCT-KIT1	Multi-use Kit Includes: 2 – PowerPatch 2-part Cartridges; 4 – Mixing Nozzles; 2 – 1 oz Putty Sticks; 8 – Type RP™ Cleaning Wipes (cat# RP-1); 1 – 24” (61 cm) Sanding Cloth; 4 – Application Sticks; 1 – Instruction Sheet	1
EPCT-KITB6	1 Box with 6 EPCT-KIT1	1
TOOL-50-11	1 – Dispensing Tool (for EPCT Kits Only)	1
EP-KIT11	Kit Includes: 1 – Sealed Plastic Bag with 2-part Sealant (part A & B); 1 – 1 oz Putty Stick; 2 – Type RP Cleaning Wipes (cat# RP-1); 1 – 24” (61 cm) Sanding Cloth; 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 – 4 oz (7”/18 cm) Putty Stick; 12 – Type RP Cleaning Wipes (cat# RP-1); 6 – 24” (61 cm) Sanding Cloths; 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 – 12” (30.5 cm) Strip Sanding Cloth; 4 – Mixing Sticks; 1 – Pair Disposable Gloves; 1 – Instruction Sheet	1
EP-STICK4	1 – 4 oz (7”/18 cm) Putty Stick	12



Completed repair with Polywater PowerPatch.

SPECIFICATIONS AND APPLICATIONS

- **Electrical Reliability:** Moisture can damage transformers. Sealing leaks as quickly as possible is key to keeping moisture from entering transformers and causing premature or catastrophic failure.
- **Chemical Resistance:** Sealant chemically resists dielectric fluids, SF_6 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.
- **Fast Cure:** Can be painted immediately to match color and further protect from UV.
- **Electrical Testing:** Platen samples are cast and fully cured. Sealant is nonconductive. Dielectric strength is 43 kV using ASTM D149, Method A.

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