



POLYWATER® AFT™ Aerosol Foam Sealant

DESCRIPTION

Polywater® AFT™ seals conduits with quick, easy installation. The two-part, self-supporting aerosol foam seals any size void and cures without additional moisture or exposure to air. AFT expands and cures to a rigid, closed-cell structure in minutes creating an airtight, watertight seal. AFT protects from insects, rodents, moisture, dust, and gases. The package is reusable and the seal is fire retardant.

COMPONENT PROPERTIES

	PART A	PART B
Chemical Description	polymeric MDI	polyether polyol
Appearance	brown liquid	dark purple liquid
Shelf Life	1 year	1 year

TYPICAL PHYSICAL PROPERTIES

	METHOD	VALUE
Density	ASTM D1622	2.25 lb/ft ³ (0.036 g/cc)
Compressive Strength	ASTM D1621	25 lb/in ² (17 N/cm ²)
% Porosity	ASTM D2856	~95% closed cell
Tensile Strength	ASTM D638	97 lb/in ² (67 N/cm ²)
Flexural Strength	ASTM D790	20 lb/in ² (14 N/cm ²)
Water Absorption	ASTM D2842	3.5%

PERFORMANCE

	WATER PRESSURE	TEST TIME
Watertight, PVC Conduit	11 feet (3 meter)	24 hours
Watertight, Rigid Steel Conduit	6 feet (2 meter)	24 hours

CABLE COMPATIBILITY

AFT Two-Part Foam Sealant is compatible with common cable jacket materials. It does not change physical or electrical property of cable, based on tensile/elongation and volume resistivity testing. The cured foam is an inert solid that does not affect cable components.

OFFICIAL APPROVALS

UL Recognized

Passes UL94

Class HBF fire retardant rating



CURE RATE

AFT Two-Part Foam Sealant can be used at temperatures down to 45°F (7°C). At lower temperatures, the reaction slows, but the sealant will completely foam and cure with time.

AFT foam expands to twice its volume as it is dispensed. Full expansion is complete in under 2 minutes at 70°F (21°C). It will take 3 to 5 minutes to be tack free. During this time do not move cables or touch foam.

	VALUE
Density	2.25 lb/ft ³ (0.036 g/cc)
Rise Time	~2 minutes
Tack-Free Time	~5 minutes
Mixed Color	uniform light purple
Foam Volume/Can	450 in ³ (7400 cm ³)
Time to Dispense Can	35 seconds

APPLICATION

1. Insert a dam of crumpled paper, foam strip pieces, or white oakum about 6 inches into the conduit.
2. Shake can for 60 seconds to mix.
3. Lift hinge and insert dispensing nozzle into top orifices so that the arrow lines up with the dispensing nozzle.
4. Invert aerosol can. Insert nozzle all the way into the seal space and fully squeeze the hinge to spray sealant into the conduit between cables.

It is important to hold the can upside down and fully depress the hinge to spray. The foam should be a uniform color.

Fill chart for 6-inch plug depth:

CONDUIT SIZE	FILL TIME	SEALS PER CAN
2-inch (5 cm)	2 seconds	15 seals
4-inch (10 cm)	7 seconds	5 seals
5-inch (13 cm)	11 seconds	3 seals
6-inch (15 cm)	16 seconds	2 seals
8-inch (20 cm)	28 seconds	1 seal

5. Each nozzle can be used for up to 45 seconds between sprays. For longer time between applications, remove spent nozzle immediately. Replace with fresh nozzle for future applications.

STORAGE AND HANDLING

Do not expose to temperatures exceeding 122°F (50°C). Protect from freezing.
Product shelf life is one year.

CONTACT US

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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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