



POLYWATER® AFT™ Aerosol Foam Sealant

DESCRIPTION

Polywater® AFT™ seals conduits with quick, easy installation. The two-part aerosol 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	2.5 lb/ft ³
Compressive Strength	ASTM D1621	25 psi
% Porosity	ASTM D2856	~95% closed cell
Tensile Strength	ASTM D638	97 psi
Flexural Strength	ASTM D790	20 psi
Water Absorption	ASTM D2842	3.5%

PERFORMANCE

	WATER PRESSURE	TEST TIME
Watertight, PVC Conduit	11 feet	24 hours
Watertight, Rigid Steel Conduit	6 feet	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.

ENVIRONMENTAL RESISTANCE

AFT Sealant can withstand the typical rigors of the conduit exposure environment.

In Service Temperature Use Range:
-20°F to 200°F (-30°C to 95°C)

OFFICIAL APPROVALS

UL Recognized

Passes UL94
Class HBF fire retardant rating



CURE RATE

AFT Two-Part Foam Sealant can be used in temperatures down to 45° F (7° C). At low temperatures the reaction is slower, but the sealant will completely foam and cure with time. Do not use in temperatures above 95°F (35°C).

AFT Two-Part Foam Sealant foam coming out of the nozzle will expand to twice its volume. This will take 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	2.5 lb/ft ³
Rise Time	~2 minutes
Tack-Free Time	~5 minutes
Mixed Color	uniform light purple
Foam Volume/Can	450 cubic inches
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	2 seconds	15 seals
4-inch	7 seconds	5 seals
5-inch	11 seconds	3 seals
6-inch	16 seconds	2 seals
8-inch	28 seconds	1 seal

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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