

Flammadur® A107

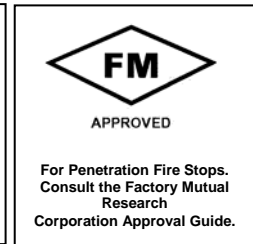
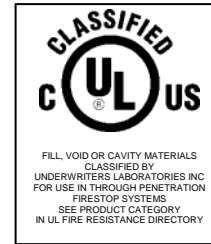
An inorganic, water-based, non-toxic, elastomeric sealant

Flammadur® A107 is a single component, non-toxic, inorganic, water-based, elastomeric, flexible firestop sealant used for penetrations through ceilings and floors.
(see attached UL systems summary or go to www.flammadur.com).

Industry Qualifications:

- ASTM E814 (ANSI/UL 1479), Fire tests of Through-Penetration Firestops
- UL C-S115, Standard Method of Fire Tests of Firestop Systems
- ANSI/UL 2079, Tests for Fire Resistance in Building Joint Systems

Made in Germany by AIK Flammadur Brandschutz, GmbH



Features:

- Flexible firestop sealant
- Single component
- For through penetrations, with up to F=3 hours
- For construction joints, with up to F=3 hours, 2" gap
- For use in large openings with rigid E473 seal for downsizing
- For unique system with moving slab in a curtain wall, 3hr fire rating, 2" gap
- Easy and safe to apply
- Non-toxic, water-based
- Smoke, fume resistant
- Silicone-free
- Solvent-free (water based, easy to clean)
- Halogen-free, asbestos-free
- Weather resistant
- Excellent aging resistance
- Good UV resistance

For Pipe and Conduit Penetration in Fire Walls:

- Penetrating Items: Metallic pipes, insulated pipes, plastic pipes, glass pipes, ducts, cables, and busways.
- Flammadur® A107, in conjunction with mineral wool (MW), has been UL® tested for penetration firestops for steel and copper pipes or steel EMT of up to nominal 4-inch diameter and schedule 5S (or heavier).
- The pipe or EMT is surrounded with a packing of mineral wool (density 6 to 9 lbs/cu ft) which is sealed at the end with Flammadur® A107. A107 has been tested according to ASTM E 814 and UL 1479 in fire tests of through penetration firestops, including water hose stream tests. Flammadur® A107 has been classified by UL systems CAJ1043 and CAJ1085 (F = 2-3 hours) for penetrations in fire-rated fire walls and floors, and by Factory Mutual Design No. 123 (see [summary table of approvals](#)).

Uses:

It has been tested for mechanical pipes (metal or composites) and metal conduits in conjunction with mineral wool, and it can be used to seal construction gaps, expansion joints, control joints, and movable curtain wall gaps. **Flammadur®A107** maintains the fire rating of walls and ceilings so that flames and smoke cannot pass through. A107 does not release any flammable, noxious or toxic fumes during installation and curing. It is UL® and Factory Mutual certified. Use [Flammadur®E473](#) (rigid seal) to downsize the openings.

For Construction Joints and Movable Curtain Wall Gaps:

- Types of Assembly being penetrated: Floor and wall installations in concrete, masonry, dry-wall and wood floors.
- Flammadur®A107, in conjunction with mineral wool, has been UL tested for construction joints (UL System No. FFS0019 and WWS0026) and movable curtain wall gaps (UL System No. IWS002) with a width of up to 2 inches (5.1 cm). For a 4½ inch (11.4 cm) thick, 3-hour fire rated slab (lightweight cement) the gaps are filled from below with mineral wool to a depth of 3½ inches (8.9 cm). The top of the gap is closed with Flammadur® A107 to a depth of 1 inch (2.5 cm). Certified by Factory Mutual Design No. 126 (see [summary table of approvals](#)).



Fire Protection Technologies, Inc.

Preparation and Installation:

- The substrate must be dry, clean and free from dust, oil and grease.
- Porous substrates, e.g., concrete and untreated wood are to be pre-treated with a diluted sealant (Flammadur Acrylic Firestop Sealant with water in a ratio of 1:1 to 1:5)(=primer application).
- Before applying primer remove cement grouts, release agents and (oil)-coatings/-impregnations.
- The sealant can be tooled with water or suitable tooling liquid.
- No maintenance of the penetration seal is required.
- Surfaces shall be clean and free from loose debris, dirt, oil and wax.
- If a surface is painted or coated, it is recommended to wire brush and clean all loose debris from contact areas prior to installation.
- Apply Flammadur® A107 by conventional caulking gun, 20 oz. soft package gun, bulkload gun, trowel, or wet fingers.
- The material does not stick to wet fingers.
- On highly water-absorbent surfaces, such as masonry block, prewet surface by brushing with a 50% diluted mixture of A107 and water, then seal with A107 sealant.
- Install in conjunction with mineral wool (MW). Surround pipes or EMTs with densely packed mineral wool (density nom. 6 pcf to 9 pcf).

- Apply A107 sealant as required to the specified depth and trowel the surface flush with floor or wall.
- Tools and spills can be cleaned with a wet cloth.

Storage and Handling:

- A107 shall be delivered to the job site in original, unopened packages.
- A107 shall be installed prior to the expiration date.
- Store A107 off the ground in a dry area maintained between 40°F (4°C) and 90°F (32°C).
- The temperature range to install A107 is between 34°F (1°C) and 120°F (49°C).

Maintenance:

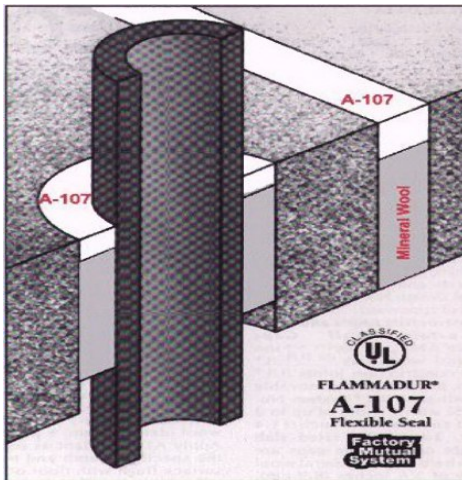
No maintenance of the penetration seal is required.

Repairs:

Repair cuts, tears, or separations of A107 with a new insertion of A107 sealant.

Clean Up:

Clean up tools and spills by using a wet cloth or soap and water.



Packaging:

10.5 fl. oz. (310 ml) cartridge fills 19 cubic inches (310 ml)
18.2 fl. oz. (538 ml) ESK50 flexible (sausage) cartridge fills 33 in3 (538 ml)
44 lb. (20 kg) bucket fills 940 in3 (15.4 liters)
Color: White
Consistency: paste
Application Temperature: above 0°C (32°F)
Required additive: none
Thinner (if required): water
Cleaning solvent: water
Storage: frost-free in dry environment at room temperature Shelf life from the date of production (frost-free) is at least one year and as long as the paste has not dried out. Partially dried sealant can be revived by adding water.

Manufacturer

Flammadur materials were originally developed by AEG Insulier und Kunststoff, GmbH, Division of AEG (German General Electric). Present manufacturer AIK Flammadur Brandschutz GmbH, Kassel, Federal Republic of Germany, has licensed *Fire Protection Technologies, Inc.* to distribute Flammadur products in America.

Mechanical Properties:

No need for metal fasteners and steel plates
Elastomeric
Specific gravity: 1.3 (water=1.0)
Seals against water penetration
Bonds to cables, concrete, bricks, metals, etc.

Flammadur® A107 is available from Fire Protection Technologies, Inc.

Cartridge	300 ml (10.1 fl oz)	No. 40009
Sausage	600 ml (20.2 fl oz)	No. 40007
Pail	5 US gallon	No. 40008

Products and Technical Assistance available from

	<p>Fire Protection Technologies, Inc. Suite 160 8000 Research Forest Drive The Woodlands, TX 77382 Website: www.flammadur.com</p>	
<p>Adolf R. Hochstim, PhD Technical Director</p>	<p>e-mail: ahochstim@earthlink.net</p>	<p>Phone: (818) 730-7749 FAX: (936) 271-4114 (Fax only)</p>
<p>Charles R. Eminhizer, PhD Thermal Physicist</p>	<p>e-mail: charles.eminhizer@yahoo.com ceminhizer@att.net</p>	<p>Phone: (858) 442-2192</p>

Warranty:

The information provided is based upon typical installation conditions and tests Fire Protection Technologies, Inc. believes to be reliable. However, due to a wide variety of possible use conditions, the manufacturer and distributor does not guarantee that typical values expressed will necessarily be obtained. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. NEITHER SELLER, DISTRIBUTOR, OR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS, OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. Before using, user shall determine the suitability of the product of their intended use, and user assumes all risk and liability whatsoever in connection therewith.

No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of the manufacturer, or distributor.