

FIREBARRIER SILICONE SL

1. PRODUCT NAME

A/D FIREBARRIER Silicone SL

2. PRODUCT DESCRIPTION

Basic Use: A primerless single component self-leveling silicone sealant. It cures to a durable, flexible, silicone rubber when exposed to atmospheric moisture. It is designed for economical use in joint and service penetration firestop configurations. It forms a durable, flexible, watertight bond with most construction materials. In most cases, no primer is required.

Composition and Materials:

A/D FIREBARRIER Silicone SL is designed to self-level. No tooling is required. Physical properties will remain stable over time. It may be applied over a wide temperature range, 0°F to 120°F (-18°C to 50°C), allowing the sealant to be applied in any season.

Packaging: A/D FIREBARRIER Silicone SL is available in nominal 10.3 fl. oz. (304 mL) and 28.7 fl. oz. (850 mL) cartridges, 20 fl. oz. (600 mL) foil packs and 2.64 US gallon (10L) and 4.5 US gallon (17L) bulk containers. Contents are 18.6 in³, 49 in³, 36.1 in³, 634 in³ and 1050 in³ respectively. Refer to the A/D FIREBARRIER estimate guide for volume and coverage information.

Color: Red

Application Limitations:

- Do not use where abrasion or physical abuse is anticipated.
- Installation in confined or air-free spaces may inhibit cure.
- Silicones may be painted, but movement of the silicone may cause the paint film to crack and peel. We recommend the sealant be applied after painting is completed.
- A/D FIREBARRIER Silicone SL is self-leveling and is therefore limited to horizontal applications.
- Do not apply to surfaces with special protective or cosmetic coatings without prior consultation of the manufacturer and first testing adhesion.

PHYSICAL PROPERTIES

Properties

Results

Uncured

Color	Red
Skin Over Time @ 25°C (77°F)	75 minutes
Curing Time @ 25°C (77°F)	48 hours
Flow, Sag or Slump	Self-leveling
Specific Gravity	1.15
VOC (ASTM D 3960-92)	Less than 0.50 lb/gal US

Cured (21 days @ 25°C (77°F) 50% RH)

Color	Red
Hardness (A) (ASTM D2240)	5
Elongation at Break (ASTM D412)	600%
Movement Capability (ASTM C719)	+100/-50 %
Tensile strength (ASTM D412)	98.5 kg/cm ² (140 psi)
Adhesion in peel (ASTM C794)	15.7 lbs. (180 , 2 in. per min., mortar, cohesive failure)

*Values given above are not intended for specification preparation.

- Do not apply to surfaces that will be in direct contact with food.
- A/D FIREBARRIER Silicone SL has been tested in a wide range of firestop joint and through-penetration system geometries. For optimum economy and performance the product should be applied to a thickness equal to or slightly greater than the minimum test design thickness. Excessive depth to width ratios may cause sealant failure. **Do not apply excessive thickness.** As a guideline, A/D Fire Protection Systems recommends the minimum tested system thicknesses not be exceeded by more than 25%.

Standards: A/D FIREBARRIER Silicone SL has been tested in accordance with the following:
ULC-S115, "Standard Method of Fire Tests of Firestop Systems."
ASTM E814-83, "Standard Method of Fire Tests of Through-Penetration Fire Stops".
ANSI/ULC 2079, "Tests for Fire Resistance of Building Joint Systems".

3. TECHNICAL DATA

A/D FIREBARRIER Silicone SL sealant remains flexible indefinitely between temperatures of -50°F and 300°F (-45°C to 149°C). It will not crack or crumble.

A/D FIREBARRIER Silicone SL is listed by ULC, ULI, ITS and FM. For details of rated firestop systems see ULI's Fire Resistance Directory, Volume 2, ULC's List of Equipment and Materials, Firestop Systems and Components, ITS's Listings Book and FM's Approval Guide. The following tested firestop systems were published at the time of this writing:

ULC: JF9, -14, -29, -50, -51 and -93.
SP159, -160, -161, -162, -163, -167, -219, -220, -221, -383, -384, -385, -386 and -916.

ULI: CAJ-0017, -0029, -1116, -1117, -1129, -5027, -5064, -5065, -8023, -8024 and -8028.
FF-D-1036 and -1038.
FW-D-1036

FM: 83, 85, 86, 87, 88, 89 and 235.

Intertek/Warnock Hersey:

AD/PH 180-04, -05 and -06
AD/PHV 180-04, -05, -06, -07 and -08

Contact A/D Fire Protection Systems for a current list of tested systems.

4. INSTALLATION

Clean all openings to be firestopped by removal of foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants, glazing compound, protective coatings, etc.

Priming: A/D FIREBARRIER Silicone SL generally does not require priming. In view of the unpredictability of surface characteristics, it is recommended that a test sample of sealant be applied on the surface to test adhesion.

Masking: Areas adjacent to openings to be firestopped can be masked to assure a neat appearance. The masking tape should not be allowed to touch the clean surfaces to which the silicone is to adhere. Remove masking tape immediately.

A/D FIREBARRIER Mineral Wool is the required backer material in most tested systems. The material allows a controlled depth of sealant to be applied for maximum economy.

Install backer material as specified. Surfaces of mineral wool to receive sealant should be recessed in the opening to a depth equal to the required thickness of sealant. Apply A/D FIREBARRIER Silicone SL in sufficient quantity to fill and seal the opening to the specified depth. It is self-leveling and therefore no tooling is required.

Excess sealant should be dry-wiped from glass, metal and plastic surfaces while still uncured, followed with a commercial solvent such as xylol, toluol, or methyl ethyl ketone.

Cured sealant may be very difficult to remove without altering or damaging the surface to which the sealant has been misapplied.

Precaution: On direct contact, uncured sealant may irritate eyes. Flush with water and call a physician. Avoid prolonged contact with skin. **Keep out of reach of children.**

To safely use this product, read and abide by Material Safety Data Sheet

(MSDS). Provide adequate ventilation

Shelf Life: When stored in original and unopened container at or below 90°F (32°C), A/D FIREBARRIER Silicone SL has a shelf life of one year from date of manufacture.

5. AVAILABILITY AND COST

Availability: A/D sales offices and technical representatives are located throughout North America. (See below)

6. MAINTENANCE

No maintenance should be required. If silicone sealant becomes damaged, replace damaged portion. Clean surfaces in damaged areas, and repair with fresh A/D FIREBARRIER Silicone SL.

7. TECHNICAL SERVICES

Contact nearest A/D representative.



A/D FIRE PROTECTION SYSTEMS

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