

FIREBARRIER INTUMESCENT CAULK

1. PRODUCT NAME

A/D FIREBARRIER Intumescent Caulk.

2. PRODUCT DESCRIPTION

Basic Use: A/D FIREBARRIER Intumescent Caulk is a water based, single component elastomeric sealant intended for use as a firestop system component.

Composition and Materials:

A/D FIREBARRIER Intumescent Caulk forms a durable, flexible, watertight bond with most construction materials. It is applied independently for “caulk and walk” systems or over mineral wool or backer rod (refer to test design details) to seal the openings where building services such as pipes and cables penetrate fire rated assemblies. May be applied by caulking gun or trowel. Clean up is with water.

A/D FIREBARRIER Intumescent Caulk contains water and is best if protected from freezing. If frozen, thaw completely before use

Packaging: A/D FIREBARRIER Intumescent Caulk is available in 10.3 fl. oz (304 ml) cartridges, 20 fl. oz (600 ml) foil packs and nominal 4.5 gal (17 L) plastic pails. Contents are 18.6 in³, 36.1 in³ and 1050 in³ respectively. Refer to the A/D FIREBARRIER estimate guide for volume and coverage information.

Color: Red

Application Limitations:

A/D FIREBARRIER Intumescent Caulk is intended for use at interior locations in buildings only. Protect from direct contact with water until cured. Curing time will vary with temperature and humidity.

- Do not use where abrasion or physical abuse is anticipated.
- Installation in confined or air-free spaces may inhibit cure.
- Do not apply to surfaces with special protective or cosmetic coatings without prior consultation with the manufacturer and first testing adhesion.

PHYSICAL PROPERTIES*

Properties	Results
Color	Red
Odor	Mild
Uncured	
Flow rate (ASTM C920)	175 mL/min
Volatile by Volume	35.7%
Tack Free Time	30 min. (@ 70°F (21°C) 50% RH)
Specific Gravity	1.25
VOC (ASTM D 3960-92)	0.14 lb/gal US (16 g/L)
Cured	
Flow, Sag or Slump	0
Hardness (A) (ASTM D2240)	35-40
Elongation at Break (ASTM D412)	85%
Tensile Strength (ASTM D412)	145 psi
Effects of Accelerated Weathering	
UV Exposure (ASTM C920)	No Cracking
Cold Temperature (ASTM C920)	No Cracking

*Values given are not intended for specification preparation.

- A/D FIREBARRIER Intumescent Caulk has been tested in numerous firestop configurations. For optimum economy and performance, apply 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%.

3. TECHNICAL DATA

Physical Properties:

Refer to Table 1.

Fire Resistance Ratings: A/D FIREBARRIER Intumescent Caulk has been tested and certified by ULI and ULC in accordance with ULC-S115, ASTM E814 and ANSI/UL1479. The following tested firestop systems were published at the time of this writing:

- **ULI System No's:** C-AJ-1343, -1344, -1345, -1365, -1492, -1493, -2464, -5260, -7042
- WL-1225, 1235, 1236

- F-C-1086, -2195, -2206, -3061 and -5051.
- **ULC Systems No's:** SP961, -962, -964, -965, -966, -967, -968, -969, -984, -989, -1001, -1002, -1003, -1076, -1077, -1078 and -1079, SPC53, -58, -98, -99 and -100.

Contact A/D Fire Protection Systems for a current list of fire rated 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. Refer to fire test design / system.

Priming: A/D FIREBARRIER Intumescent Caulk does not require any 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 caulk is to adhere. Remove masking tape immediately.

Applications: For “caulk and walk systems”, simply apply the product where required and let cure.

Where backer material (mineral wool, backer rod, etc.) is required by fire test design or system, install backer material as specified. Surfaces of backer material to receive caulk should be recessed in the opening to a depth equal to the required thickness of sealant. Where mineral wool is required backer material, we recommend the use of A/D FIREBARRIER Mineral Wool – this high quality material is available pre-cut for easy installation and allows a controlled depth of caulk to be applied for maximum economy. Apply A/D FIREBARRIER Intumescent Caulk in a continuous operation to fill and seal the opening. Tool the caulk to spread it

against the backer material and the opening surfaces.

Simply fill the annular space to the required depth and form a smooth bead or crown at the surfaces.

Excess sealant should be cleaned with water.

CURED SEALANT IS USUALLY VERY DIFFICULT TO REMOVE WITHOUT ALTERING OR DAMAGING THE SURFACE TO WHICH THE SEALANT HAS BEEN MISAPPLIED.

Precaution: A/D FIREBARRIER Intumescent Caulk is a water-based product. No acetic acid or objectionable byproducts are evolved during application. On direct contact, uncured caulk 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).

Shelf Life: A/D FIREBARRIER Intumescent Caulk has shelf life of one year from the date of manufacture when stored in original and unopened container at or below 90°F (32°C) and above 32°F (0°C). See top of box or label on pail for date of manufacture (day/ month/ year).

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 intumescent caulk becomes damaged, replace damaged portion. Clean surfaces in damaged areas, and repair with fresh A/D FIREBARRIER Intumescent Caulk.

7. TECHNICAL SERVICES

Contact nearest A/D representative.



A/D FIRE PROTECTION SYSTEMS

Head Office: 420 Tapscott Road, Scarborough, Ontario, M1B 1Y4

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Contact by State or Province

AK, AR, AZ, CA, CO, HI, ID, LA, MT, NM, NV, OK, OR, TX, WA, WY, UT: Tel: (888) 323-3473, Fax: (949) 458-9220

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