

# Product Data Sheet



## ASMACO INTUMESCENT ACRYLIC SEALANT

One Component acrylic based Fire-rated sealant for interior and exterior linear joints and penetration seals

### Product Description:

ASMACO INTUMESCENT ACRYLIC SEALANT is a one-part, fire-rated intumescent acrylic sealant designed for the internal perimeter pointing of fire-rated door and window frames. The sealant is fire-resistant, easy to apply, and effectively seals joints between construction parts subjected to moderate stress. The intumescent property allows it to expand when exposed to fire, making it an efficient fire-stop sealant. When used as recommended, it helps protect combustible and non-combustible penetrations and linear joints for up to a 4-hour fire rating, such as for cables and pipes where the integrity of fire walls or partitions needs to be maintained. It exhibits good adhesion to a wide variety of substrates without the need for a primer. The intumescent qualities enable the material to swell under heating conditions, producing a fire and smoke-resistant seal. Moreover, ASMACO INTUMESCENT ACRYLIC SEALANT does not emit halogenated byproducts under fire conditions."

### Properties

- Protects most typical fire-stop penetration applications up to 4 hours
- Class 2 surface spread of flame classifications
- Meets Green building requirements
- Easy to work with and fast cleanup
- Can be re-penetrated when laying new cables, ducts, pipes etc
- Good unprimed adhesion to most common construction substrates
- Can be painted
- Resistance to Ozone, UV radiation and temperature extremes

### Typical areas of use:

- Internal perimeter pointing around door and window frames, where the integrity of fire walls need to be maintained
- In small joints formed where fire rated partition sections meet.
- Steel, copper and EMT pipes
- Insulated steel and copper pipes
- Cable bundles
- Closed or vented plastic pipes
- HVAC penetrations

### Typical Properties:

Test	Requirement	Results
	Full Cure	14 days to 21 days
	Color	Red
	Movement Capabilities	5%
	Specific Gravity, (Clear / Black)	1.6
	Slump Resistance	Nil
	Skin form time, @ RT Minutes	10 maximum
	Pot Life minutes	30
	Application temperature range, °C	35°F (2°C) to 100°F (38°C)
	Intumescent Activation	Approx. 250°F (121°C)
	Temperature Resistance	-40°F (-40°C) to 212°F (100°C)
ASTM C 719	Joint Movement Capability, %	5



**Asmaco**  
**Intumescent**  
**Acrylic Sealant**

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## STANDARD COMPLIES:

- ASMACO INTUMESCENT ACRYLIC SEALANT has been tested in
- Non-load bearing concrete, block walls, BS EN 1364-1
- Non load bearing elements curtain wall full configurations, BS EN 1364-3
- Non load bearing elements curtain wall part configurations, BS EN 1364-4
- Door shutter & open able windows, BS EN 1634-1
- Building material & structures, BS 476 – 20
- Building material & structures, BS 476 – 22, ISO 834-1, ISO 834-8,
- Doors & shutters ISO 3008
- Building Construction Glazed elements, ISO 3009
- Waterproofing membrane, ASTM D 570, European Union of Agreement UEA tc M.O.AT 30 & 31 para E, EN 12311-1
- Fire Rated, BS 476 Part 22: 1987 Amd 2014 for 4 hours without any failure.
- To achieve class 2, BS 476 Part 7: 1997.
- Adhesives and Sealants Dubai Municipality Green Building requirements, Passes the test. GBRs Clause 404.02
- UAE Civil Defense Approved.
- Linear expansion joint configurations according to EN1366-4 and to BS 476 Part 22/1987.
- Pipes and cables penetration systems according to BS 476 Part 22/1987.

## Fire Ratings:

ASMACO INTUMESCENT ACRYLIC SEALANT has been tested for the fire rating and found to resist penetration for 4 hours without failure at specified joint configurations. The fire rating achieved as per BS 476 Part 22: 1987 Amd 2014 and are specific to the conditions of testing.

User should follow the manufacturers recommendation that ASMACO INTUMESCENT ACRYLIC SEALANT is suitable for their specific application.

## Method of Application:

Ensure that all surfaces are clean, dry, sound. Clean all joints of release agents, water repellents, laitance, dust, dirt, old sealants and other contaminants which could impair adhesion.

Metallic substrates should be degreased, grit blasted/washed to remove any contaminants that could impair adhesion. Suitable solvents like isopropyl alcohol, acetone or universal cleaner can be used to clean the metallic substrates.

1. For further advice on cleaning specific substrates please contact technical services department.

• When using any solvent, always provide adequate ventilation. Avoid heat, sparks and open flames. Observe and follow all precautions listed on solvent container label or Product Safety Data Sheet as recommended by the solvent manufacturer and applicable federal, state, and local regulations. Adhesion Asmaco Intumescent Acrylic Sealant has excellent adhesion to most common construction substrates. If in doubt, or if unusual substrates are involved, please contact the technical services department.

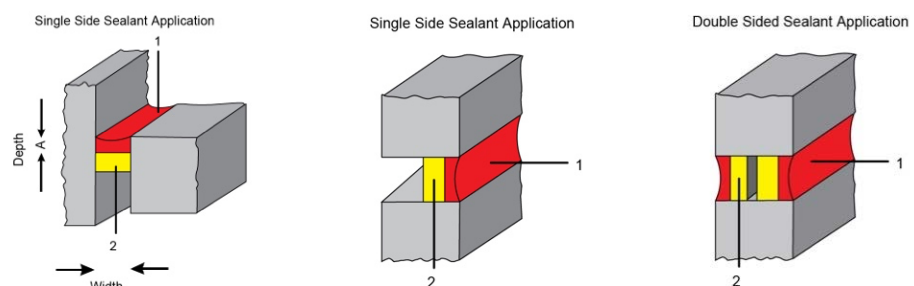
• The joint should have a minimum width of 6 mm. Specific fire rate achievement depends on the joint configuration. Refer Table 1 for the detailed joint configuration as per which the test has been conducted. Joint types have been tested as per the figure 1. The joint configuration may be selected as per the project requirement. For additional information or support, contact Anchor Allied's Technical Support Department.

• To get maximum fire resistance, Ceramic fiber or fiber rope / mineral wool with 100 Kg/m<sup>3</sup> density may be used as back up Polyethylene backup rods also can be used.

• Area adjacent to the joint should be masked with masking tape to prevent traces of the sealant at time of tooling contamination of the substrate and to ensure neat sealing and the tape may be removed immediately after tooling before skin formed. Joint should be tooled within 5 minutes of application. Uncured sealant may be cleaned with dampened cloth and cured sealant can only be cleaned with mechanical means.

## Joint Sealing:

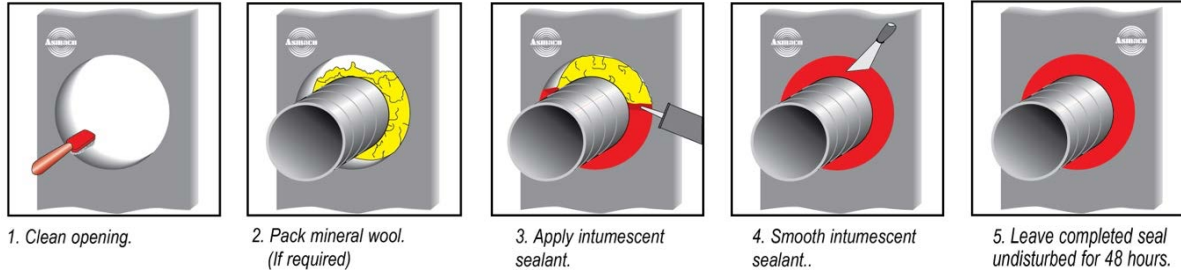
1. Sealant
2. Backing



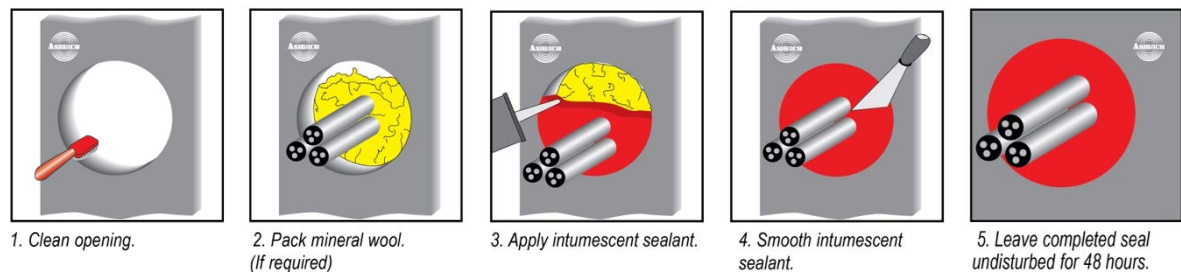
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## Penetration Sealing



Identification plates may be fixed where ever applicable



## Limitations:

Asmaco Intumescent Acrylic Sealant should not be applied to building materials that bleeds oils, plasticizers or solvents.

**Table 2: Fire Rating**

Joint width	Joint Depth	Backing material	Joint type	Integrity rating
6 mm	10 mm	8 mm Ceramic Fiber	Single side	4 hours
6 mm	10 mm	8 mm Polyethylene Foam	Double side	4 hours
10 mm	10 mm	12 mm Ceramic Fiber	Single side	4 hours
10 mm	10 mm	12 mm Ceramic Fiber	Double side	4 hours
25 mm	20 mm	30 mm Ceramic Fiber	Single side	4 hours
25 mm	20 mm	30 mm Ceramic Fiber	Double side	4 hours
25 mm	25 mm	30 mm Polyethylene Foam	Double side	4 hours
25 mm	20 mm	25 mm Mineral wool	Double side	4 hours
25 mm	15 mm	30 mm Ceramic Fiber	Double side	4 hours

## Note:

- All single side joints were tested on fire side
- Mineral wool nominal density - 100kg/m<sup>3</sup>
- The selection of backing material and type of joint may be decided based on the fire rating to be achieved.
- It is recommended to use backing material supplied with the sealant to ensure full result
- Approximate consumption per 280 ml cartridge

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Joint width	6 mm	10 mm	20 mm	25 mm	30 mm
Joint depth	10 mm	4.6 m	2.8 m	1.4 m	
Joint depth	20 mm		1.4 m	0.7 m	0.56 m
Joint depth	25 mm			0.44 m	0.37 m

## Caution:

Direct contact with uncured sealant irritates eyes and may irritate skin. over exposure to vapour may irritate nose and throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water. Keep out of reach of children. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

## Storage and Shelf Life:

12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures below 25°C, don't allow to freeze.

## Packaging:

ASMACO INTUMESCENT ACRYLIC SEALANT is available in 280 ml cartridges, 12 cartridges / carton.  
On request 600 ml sausage and pails can be supplied subjected to order.

## Shipping Limitations: None

### Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS,  
SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

Rev 02, TDS\_ASMACO FIRE STOP SILICONE SEALANT, GCC 0723