



CERTIFICATE OF APPROVAL
No CF 5055

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

ARABIAN VERMICULITE INDUSTRIES

1st Industrial Area, P.O. Box 7137, Dammam 31462, Saudi Arabia,
Tel: int+ 966 3 847 1450 Fax: int+ 966 3 847 1575

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT

**Avimastic High Quality
(One Part) Intumescent
Acrylic Sealant**

TECHNICAL SCHEDULE

**TS03 Penetration Sealing
Systems
TS40 Linear Gap Sealing
Systems**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman - Management Council

Issued: 8th February 2012
Valid to: 27th March 2016

Page 1 of 6



Only valid when authentic
Seal is in place
CERTIFIRE



**CERTIFICATE No CF 5055
ARABIAN VERMICULITE
INDUSTRIES**

Avimastic High Quality (One Part) Intumescent Acrylic Sealant

1. This approval relates to the use of Avimastic High Quality (One Part) Intumescent Acrylic Sealant for the fire protection of movement joints, gaps and penetration seals within walls and floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness, seal size and acceptable services for Avimastic High Quality (One Part) Intumescent Acrylic Sealant required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 of up to 240 minutes for wall/floor constructions. The scope of certification complies with the guidelines stated in the ASFP Red Book: 3rd Edition for 3rd party certification schemes.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
3. The product is approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS40/TS03
 - iii) A design appraisal against TS40/TS03
 - iv) Inspection and surveillance of factory production control
 - v) Production surveillance under ISO 9001: 2008
4. The walls shall be at least 100mm thick and the floors at least 150 mm thick and have at least the same fire rating as that required for the joint, gap or penetration seal.
5. Masonry and concrete gap faces will be within the density range of 450 to 2300kg/m³, and gap faces will be free from loose or flaking material.
6. Backing or support materials may be polyethylene or polyurethane foam, mineral or ceramic fibre insulation depending on the required application and performance.
7. The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Further information regarding the details contained in this data sheet may be obtained from Arabian Vermiculite Industries (Tel: int+ 966 3 847 1450).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).



**CERTIFICATE No CF 5055
ARABIAN VERMICULITE
INDUSTRIES**

**Avimastic High Quality (One Part) Intumescent Acrylic Sealant -
Approval Matrix**

Joint seals in Wall and Floor Installations						
Product Name		Avimastic High Quality (One Part) Intumescent Acrylic Sealant				
Single sided seals positioned on the non-fire risk side of the element of construction						
Configuration	Max. Joint Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)	
Minimum 250 mm Wall Constructions	10	10	Polyethylene/ Mineral wool/ Ceramic wool	240	240	
	20	10		240	120	
	25	20		240	120	
	40	20		240	90	
Minimum 250 mm Floor Constructions	10	6		20 mm deep Mineral wool/ Ceramic wool	240	180
	20	10			120	30
	25	15			240	60
	50	25			240	90
	30*	15			240	30
* Seal may be installed to either soffit or top of the floor						
Application Technique	For good adhesion the surfaces of the building element shall be free of any dust or grease. The backing rod is inserted into the joint at the required sealant depth and the sealant then applied. The sealant shall be applied flush to the top face of floors (unless specifically stated otherwise above) and flush to the non-fire risk face of the wall or if this cannot be determined, flush to both sides of the wall.					
Supporting constructions	Masonry elements may be brick, aerated lightweight concrete block or lightweight/normal weight concrete, minimum 250 mm thick.					



**CERTIFICATE No CF 5055
ARABIAN VERMICULITE
INDUSTRIES**

Avimastic High Quality (One Part) Intumescent Acrylic Sealant - Approval Matrix

Gap seals in Wall Installations					
Product Name		Avimastic High Quality (One Part) Intumescent Acrylic Sealant			
Seals positioned on both sides of the element of construction					
Configuration	Max. Gap Width (mm)	Minimum Seal Depth (mm)	Backing Material	Integrity (mins)	Insulation (mins)
Minimum 100 mm Wall Constructions	Vertical gaps between boards in Gypsum drywalls* or joints between masonry elements	9	Mineral wool/ Ceramic wool 20 mm deep	115	114
		20	Polyethylene/ Mineral wool/ Ceramic wool	115	115
Minimum 130 mm Wall Constructions		15	Mineral wool/ Ceramic wool 15 mm deep	120	120
		30	No backing	120	120
		15		120	90
		15	Polyethylene/ Mineral wool/ Ceramic wool	120	90

* Does not include joints between separate drywall partitions

Application Technique	For good adhesion the surfaces of the building element shall be free of any dust or grease. The backing rod is inserted into the joint at the required sealant depth and the sealant then applied. The sealant shall be applied flush to both sides of the wall. Where no backing material is used a cardboard sheet or similar shall be used to allow formation of the seal to the correct depth.
Supporting constructions	Masonry elements may be brick, aerated lightweight concrete block or lightweight/normal weight concrete, minimum 100 mm thick. 100 mm drywalls shall be formed from steel or timber studs at least 50 mm deep, lined on both faces with minimum 2 layers of 12.5 mm Type F plasterboard (minimum). 130 mm drywalls shall be formed from steel or timber studs at least 70 mm deep, lined on both faces with minimum 2 layers of 15 mm Type F plasterboard (minimum).



**CERTIFICATE No CF 5055
ARABIAN VERMICULITE
INDUSTRIES**

**Avimastic High Quality (One Part) Intumescent Acrylic Sealant -
Approval Matrix**

Penetration seals in Wall Installations					
Product Name		Avimastic High Quality (One Part) Intumescent Acrylic Sealant			
Element of construction	Aperture size	Seal composition	Services	Integrity (mins)	Insulation (mins)
Gypsum board drywall or masonry wall 130 mm thick (min.)	20 mm greater than pipe diameter	30 mm deep sealant to both faces, back filled to full depth with stonewool (33kg/m ³)	Up to 219 mm diameter uninsulated mild steel pipe at minimum 2.5 mm wall thickness	120	0
			Up to 42 mm diameter uninsulated copper pipe at minimum 1.0 mm wall thickness	120	0
			Up to 28 mm diameter uninsulated copper pipe at minimum 1.0 mm wall thickness	120	90
			Up to 40 mm diameter uninsulated Polypropylene pipe at 4.0 mm wall thickness	120	120
			Up to 42 mm diameter uninsulated ABS pipe at 4.0 mm wall thickness	120	120
			Up to 42 mm diameter uninsulated uPVC pipe at 3.0 mm wall thickness	120	120
			Up to 32 mm diameter uninsulated MDPE pipe at 3.0 mm wall thickness	120	120
Application Technique	For good adhesion the surfaces of the building element shall be free of any dust or grease. The backing material is inserted into the aperture around the service and packed to full depth (minus the sealant depth) and the sealant then applied. The sealant is applied flush to both faces of the supporting element(s).				
Supporting construction	<p>Masonry elements may be brick, aerated lightweight concrete block or lightweight/ normal weight concrete.</p> <p>120 minutes gypsum drywalls shall be constructed from minimum 70 mm steel stud, faced on both sides with 2 layers with 15 mm Type-F Gypsum boards (minimum).</p> <p>60 minutes gypsum drywalls shall be constructed from minimum 50 mm steel stud, faced on both sides with 2 layers with 12.5 mm Type-F Gypsum boards (minimum).</p>				



**CERTIFICATE No CF 5055
ARABIAN VERMICULITE
INDUSTRIES**

**Avimastic High Quality (One Part) Intumescent Acrylic Sealant -
Approval Matrix**

Penetration seals in Floor Installations					
Product Name		Avimastic High Quality (One Part) Intumescent Acrylic Sealant			
Element of construction	Aperture size	Seal composition	Services	Integrity (mins)	Insulation (mins)
Concrete floor 150 mm thick (min.)	85 mm diameter	15 mm deep sealant to both faces, backed with 30 mm deep stonewool (140 kg/m ³)	25 mm diameter copper cored cable	240	240
Concrete floor 250 mm thick (min.)	360 x 100 mm	25 mm deep sealant to the soffit, backed with 20 mm deep stonewool (140 kg/m ³)	Bundle of up to 7 no. 5 x 1.5 mm ² , 14 mm diameter, copper cored cables	60	60
			3 x 240/120 mm ² , 54 mm diameter, copper cored cable		
			300 mm wide steel cable tray		
Application Technique	For good adhesion the surfaces of the building element shall be free of any dust or grease. The backing material is inserted into the aperture around the service and packed to full depth (minus the sealant depth) and the sealant then applied. The sealant is applied flush to both faces of the supporting element(s).				
Supporting construction	Concrete floors may be aerated lightweight concrete or lightweight/ normal weight concrete.				