

Professional Passive Fire Protection

Product Range



- S290 Acoustic Intumescent Sealant
- S291 Intumescent Pressure Sealant
- Socket Box Protection
- Pipe Wraps
- Pipe Collars
- FR Mineral Wool Board



DISTRIBUTOR

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Professional Passive Fire Protection

S291 Intumescent Pressure Sealant



Air - Sound - Fire



S291 Intumescent Pressure Sealant

ASF S291 Intumescent Pressure Sealant is an easy to apply waterborne permanently flexible acrylic emulsion sealant containing graphite which expands at temperatures above 135° C sealing around various penetrations and services to prevent the passage of smoke and flames.



ASF S291 Intumescent Pressure Sealant has been designed to expand in fire conditions to seal gaps & holes formed when services and substrates melt/fall away and maintaining the integrity of the fire barrier.

ASF S291 Intumescent Pressure Sealant is an engineered sealant ensuring performance during service life with excellent adhesion and crack resistance when applied as recommended.

ASF S291 Intumescent Pressure Sealant is suitable for both internal and external applications.

- 4 hour rating
- Closes & seals plastic pipes
- Tested in accordance with:

BSEN 1366-3:2009



Certificate of Approval No. CF830

www.warringtonfire.net/certifire

The following fire ratings have been achieved in controlled test work*

Service Type	Construction Element	Integrity (minutes)	Insulation (minutes)
Ø110mm Polyethylene Pipe	Gypsum Wall	60	60
Ø110mm Cable Bundle	Gypsum Wall	120	120
Ø110mm PVC Pipe	Masonry Wall	240	240
Cable Trays 150x25x1 mm	Masonry Wall	240	180
Ø110mm Polypropylene Pipe	Concrete Floor	90	60
Ø130mm Copper Core Cable	Concrete Floor	240	240

The above results show typical integrity levels of the product in a fire situation, however, each joint situation will have different characteristics and therefore different fire ratings. In general it has been found that a greater depth of sealant will provide greater integrity and that the use of a double seal i.e. sealant applied at both external faces of a joint will increase values further.

*A full approval of the product is contained in Certifire Certificate of Approval No. CF 830

The Certifire report details tests carried out on the material when tested against the performance criteria of BSEN 1366-3:2009

ASF S291 Intumescent Pressure Sealant is recommended for use where a flexible and durable fire resistant seal is required. Suitable applications include installations where the sealant is required to exert a positive pressure in the joint design preventing passage of smoke, gas/vapour or liquids in the event of a fire. Suitable applications include designed joints around:

- Combustible and non-combustible pipes (plastic and metal)
- Cables (single cables or bunches of cables or cable trays)
- Other permanent services
- Floor, wall and ceiling services
- Suitable substrates include concrete, metals, drywall, plastics, masonry, fire rated panels and ceramics

Joint Size (mm)	3 x 6	6 x 6	9 x 6	12 x 6	20 x 10	7 x 7 fillet	10 x 10 fillet
Linear metres per Cartridge	17.2	8.6	5.7	4.3	1.5	12.6	6.2

For circular gaps or holes, calculate the requirement using:

Volume of a cylinder = $\pi \times r^2 \times \text{depth} = 3.142 \times (\text{Diameter} \div 2)^2 \times \text{depth}$

Number of cartridges required = $(\text{Volume of hole} - \text{Volume of pipe/service}) \div 310$

ASF S291 Intumescent Pressure Sealant is available in 310ml rigid plastic cartridges.