aspex

novista
riser

steel & timber door fire stopping guide

It is very important that the gap between the back of the door frame and the wall is filled with the correct material to ensure that the Novista Riser doorset achieves the required fire rating.

We have been carried out a series of fire tests out on our Novista Riser doorsets and two different methods for filling the gap were used, these are rock mineral fibre with an acrylic intumescent cap or our Expanding Fire Foam.

Rock Mineral Fibre with Acrylic Intumescent Sealant

The void between the frame and the wall is filled with rock mineral fibre which should be pushed into the gap, along the full width of the frame and then capped with an Intumescent Acrylic sealant cap nominally 5-10mm thick.

Frame packers Plastic packers were used for the fire tests and these should be trimmed in line with the edge of the frame.

Door Lining The aperture does not need to be lined with plaster board for **FD30** and **FD60** doorsets but for **FD90** and **FD120** it does.

Technical

The Acrylic Intumescent Sealant is a combination of water-based acrylic emulsion with filler to provide high levels of fire resistance in a range of building applications.
The one-part sealant is solvent free and when subjected to fire, its chemical reaction forms a safe, inorganic meringue which provides proven fire sealing in building joints incorporating concrete, wood and metal.

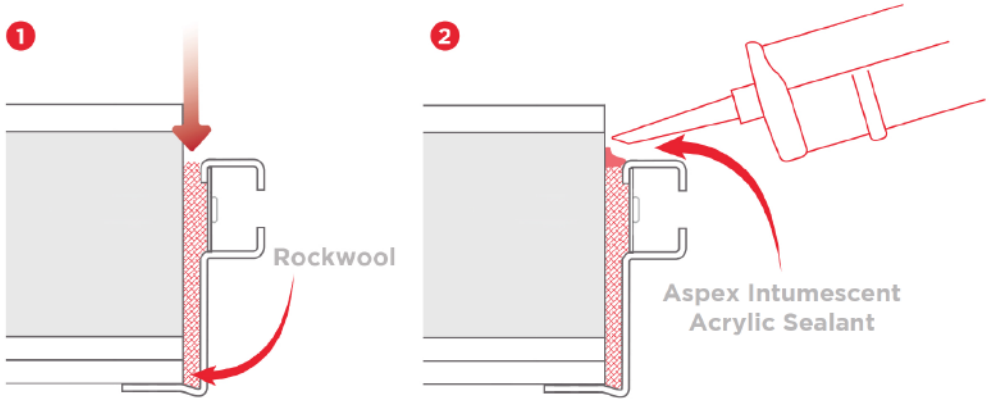
Construction Joints should be dry clean and free of powder or dust.
To improve surface finish, smooth with a spatula. Cured sealant can be over painted.

Physical Data

Storage Temp: +5º to +25ºC
Application Temp: +5º to +30ºC
Tack Free Time: 10-60 mins
Joint Movement: +/- 10%

Reaction Temp: 120ºC
Volume Expansion: 150%
Shelf Life: 12 months

How to Fill Void



Expanding Fire Foam

The void between the frame and wall is filled with expanding fire door foam.
The foam is applied into the void using the gun attachment and built up in layers to cover the full width of the frame and this does not require an acrylic intumescent cap.

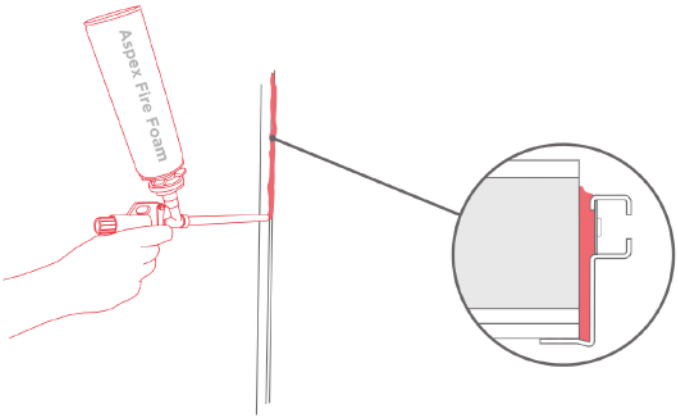
Frame packers	Plastic packers were used for the fire tests and these should be trimmed in line with the edge of the frame.
Door Lining	The aperture does not need to be lined with plaster board for **FD30** and **FD60** doorsets but for **FD90** and **FD120** it does.

Technical

'Expanding Fire Foam' is a Polyurethane Foam (PU Foam) designed to seal the gaps between walls and fire door frames, achieving fire protection for up to 2 hours.

Construction	Surfaces must be firm, clean, free of dust and loose particles. The void to be filled must be well moistened with water, this will aid installation adhesion to the substrate. It may be necessary to use a primer, prior to the application of the foam.
Physical	Optimum application temperature +10ºC > +30ºC (+20ºC ideal). Cans should not be left in an over-heated environment, temperatures above +50ºC or exposed to direct sunlight.

How to Fill Void



1. Shake the can for two minutes, until the foam inside becomes liquid. This is essential to ensure the performance of the product. Then attach the gun to the cannister.
2. Fill the gap from the base of the aperture slowly and build up layers of the foam to ensure that the full width of the frame is filled.
3. Allow the foam to cure and using a sharp bladed instrument cut-off the expanded 'cured' foam.

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