

## PRODUCT DESCRIPTION

iPASSIVE FR ASF is a one part intumescent sealant that is designed to prevent the spread of fire, smoke and hot gasses through openings in fire rated walls and floors. Specifically designed for linear joints and openings for building services penetrations.

iPASSIVE FR ASF is acrylic based which results in a firm but flexible seal. In areas of high humidity and/or in joints with excessive movement use iPASSIVE FR IPT.

In order to obtain maximum performance and the correct seal depth to width ratio, the use of backing material is strongly recommended.

## GENERAL GUIDE

### Usage

Usage (Figures quoted are for a standard 310 ml cartridge)

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 / Cartridge	17.2	8.6	5.7	4.3	1.5	12.6	6.2

**Supporting constructions:** Flexible walls  $\geq 100\text{mm}$  must have minimum 2 layers of 12.5 mm thick Type F gypsum board on both sides of 50mm deep steel studs. Flexible walls  $\geq 130\text{mm}$  must have minimum 2 layers of 15 mm thick Type F gypsum board on both sides of 70mm deep steel studs, with no cavity insulation. Rigid walls and floors must comprise of concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>.

## INSTALLATION INSTRUCTIONS

1. Before installing iPASSIVE FR ASF ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Where iPASSIVE FR ASF is to be installed against surfaces that cannot tolerate direct contact, appropriate surface preparation should be taken. For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
3. As iPASSIVE FR ASF is water based, in cases where corrosion protection is a problem, some metals may require a barrier between the sealant and the metal surface prior to this installation.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or iPASSIVE FR ASF diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.



5. When installing iPASSIVE FR ASF in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
6. Make sure that the gap to be sealed is wide enough to accommodate the correct backing material where specified. In practice, this should not be less than 10mm.
7. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
8. Fill the gap or joint with iPASSIVE FR ASF to the required depth. Refer to the technical data sheet for guidance on joint design/dimensions. If installation does not have to meet any specific fire specification, it is recommended that a width to depth ratio of 2:1 is utilized, with a minimum depth of 12mm of sealant.
9. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
10. iPASSIVE FR ASF can be overpainted with most emulsion or alkyd (gloss) paints.
11. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install iPASSIVE FR ASF on the exposed side following the instructions for gypsum wall installation. The sealant should be facing the (fire) exposed side.