

GYPROC ACRYLIC FIRE SEALANT

Installation Guide



Installation images shown are from a benchmark application of firestopping products, and do not reflect on-site conditions.

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Typical applications



The Gyproc Firestopping range delivers trusted passive fire protection across a variety of applications.

Backed by a comprehensive suite of test data, each product is designed to meet rigorous performance standards. This guide outlines installation best practices to ensure reliable firestopping and compliance with certified system requirements.

For illustrative purposes only

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Introduction



Gyproc Acrylic Fire Sealant is formulated to help resist the spread of fire and smoke through joints and openings in compartment walls and floors, including openings formed around building service penetrations.

Gyproc Acrylic Fire Sealant will cure when exposed to the atmosphere, retaining a degree of elasticity to accommodate minor joint movement. In the event of a fire, Gyproc Acrylic Fire Sealant reacts, forming an intumescent char ensuring a robust seal.

Gyproc Acrylic Fire Sealant is suitable for use with appropriate backing materials, such as stone wool to ensure the correct width-to-depth ratio and minimize sealant shrinkage during curing.

Standard details specify the minimum depth and maximum width of the joints. Activation of the sealant occurs at approximately 180 °C, causing the material to expand (intumesce) and prevent the passage of fire and smoke for up to 4 hours depending on application

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Properties

- Suitable for fire sealing many types of constructions such as drywalls, masonry walls, concrete walls, concrete floors and composite floors
- Suitable for firestopping of service penetrations in cross-laminated timber walls and floors
- Suitable for fire sealing a range of building service penetrations
- Tested with commonly used pipe insulations such as stone wool, glass wool, elastomeric, phenolic and PU-foam, both interrupted and continuous through the fire seal
- Suitable for fire sealing against timber, steel and aluminium such as door and window frames
- Non power conductive
- Available in eco-foil packaging to reduce waste
- No priming necessary for application to most materials
- Suitable for most surfaces, including concrete, masonry, steel, gypsum, glass, plastics and most non-porous surfaces
- Hardens quickly and tack-free after 1 hour (the fire performance specification of the joint filler has been derived when the joint filler has been left to cure for a month)
- Minimum 24 months storage time (under correct conditions)
- Minimum 25 years working life
- The SpecSure® Warranty covers British Gypsum Gyproc® Firestopping within new build British Gypsum and Isover partition Systems, performing as specified with a working life of 25 years*.



* The provisions made in the United Kingdom Technical Assessment for Gyproc Firestopping are based on an assumed working life of 25 years, provided that the conditions laid down in the manufacturers datasheet and instructions for the packaging/transport/storage/installation/use/repair are met. See SpecSure® Firestopping Insert for full details here: british-gypsum.com/SpecSure



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General guidance

Tools required

- Sharp knife/snips
- Sealant gun
- Spatula

Ancillary Items

- Backing material, e.g. suitable stone mineral wool*



Health and Safety

- Cover exposed skin
- When working in an unventilated area wear a disposable face mask
- Clean area using vacuum equipment
- Waste should be disposed of according to local regulations
- Rinse skin in cold water before washing
- Ventilate working area if possible
- Wear goggles when working overhead
- See the product Safety Data Sheet (SDS) for more information

Application rates

Each cartridge/sausage is intended to provide the following application rates:

APPLICATION RATES				
JOINT SIZE (mm)	DEPTH OF SEALANT (mm)	YIELD PER 310ML CARTRIDGE (m)	YIELD PER 300ML SAUSAGE (m)	YIELD PER 600ML SAUSAGE (M)
10	10	3.10	3.00	5.90
20	15	1.03	0.95	1.95
30	20	0.51	0.50	0.95

* Please refer to the UKTA for further details

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Installation



Before application of Gyproc Acrylic Fire Sealant, ensure surfaces and apertures are clean and free of bond breaking contaminants e.g. dust, loose contaminants and grease.

No priming is required for most commercial substrates; however, it is recommended that before installation the sealant is applied to a small area of the substrate to assess adhesion.



When installing Gyproc Fire Batts, all cut edges and edge to substrate should be buttered using Gyproc Acrylic Fire Sealant ensuring an even coating.

When applying sealant to gypsum plasterboards, you can prime the exposed edges by moistening them with water or with Gyproc Acrylic Fire Sealant diluted in water. This improves adhesion and helps minimise joint shrinkage.



As Gyproc Acrylic Fire Sealant is water based, in cases where corrosion protection is an issue, some metals may require a barrier between the sealant and the metal surface prior to installation.

If detailing fire stopping using the Gyproc Acrylic Fire Sealant, install to the required depth around the service item as specified. For sealing around service penetrations, install a bead of sealant around the penetrating service to ensure no gaps present. For linear joint seals install the Gyproc Acrylic Fire Sealant to the required depth substrate to substrate.

Image shows Gyproc Acrylic Fire Sealant being applied to seal a shutter batt. This seals the aperture prior to Gyproc Fire Mortar being poured on for a load-bearing seal.

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Installation continued



For sealing around penetrating services or for linear joint seals, backing material may be required.

When installing backing material, cut it slightly oversized and insert it into the gap to ensure a tight friction fit. Ensure the minimum allowable seal depth is achieved.

Image shows backing material being applied to a different aperture to that shown previously. Please check standard details for your specific penetration.



To seal penetrating services in Gyproc Fire Batt seals, apply a 15mm bead of Gyproc Acrylic Fire Sealant.

Scope of tested linear joint/annular gap dimensions can be found in the standard details pack.

If installation does not have to meet any specific fire specification, it is recommended that a width to depth ratio of 2:1 is utilised, with a minimum depth of 12 mm of sealant.



Gyproc Acrylic Fire Sealant should be applied generously to avoid air pockets or gaps forming. Once installed, any excess sealant can be smoothed using a spatula/pallet knife or brush.

It is acceptable to over-paint using the Gyproc Fire Coating to finish the seal and create an aesthetic finish.

Repeat the process on the opposite side if required by the tested design.



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