

# GYPROC® GRAPHITE 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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## Contents

- 3 Typical applications
- 4 Introduction
- 5 Properties
- 6 General guidance
- 7 Installation



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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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# Gyproc® Graphite Fire Sealant Installation Guide

## Introduction

Gyproc Graphite Fire Sealant is a high specification formulation designed to prevent the spread of fire, smoke and hot gases through openings in compartment walls and floors. When exposed to fire and heat, the Fire Sealant expands to seal openings around building service penetrations, preventing the passage of fire and smoke between compartments.



Gyproc Graphite Fire Sealant is versatile and designed to firestop building services such as insulated metallic pipes, combustible pipes, combustible cable conduits and cables which penetrate fire rated walls and floors.

Gyproc Graphite Fire Sealant is tested using a suitable backing material, i.e. stone wool to ensure the correct width to depth ratio and to reduce the shrinking of the sealant during curing.

The sealant is available in 310 ml cartridges or 300 ml foils to provide less waste on site.



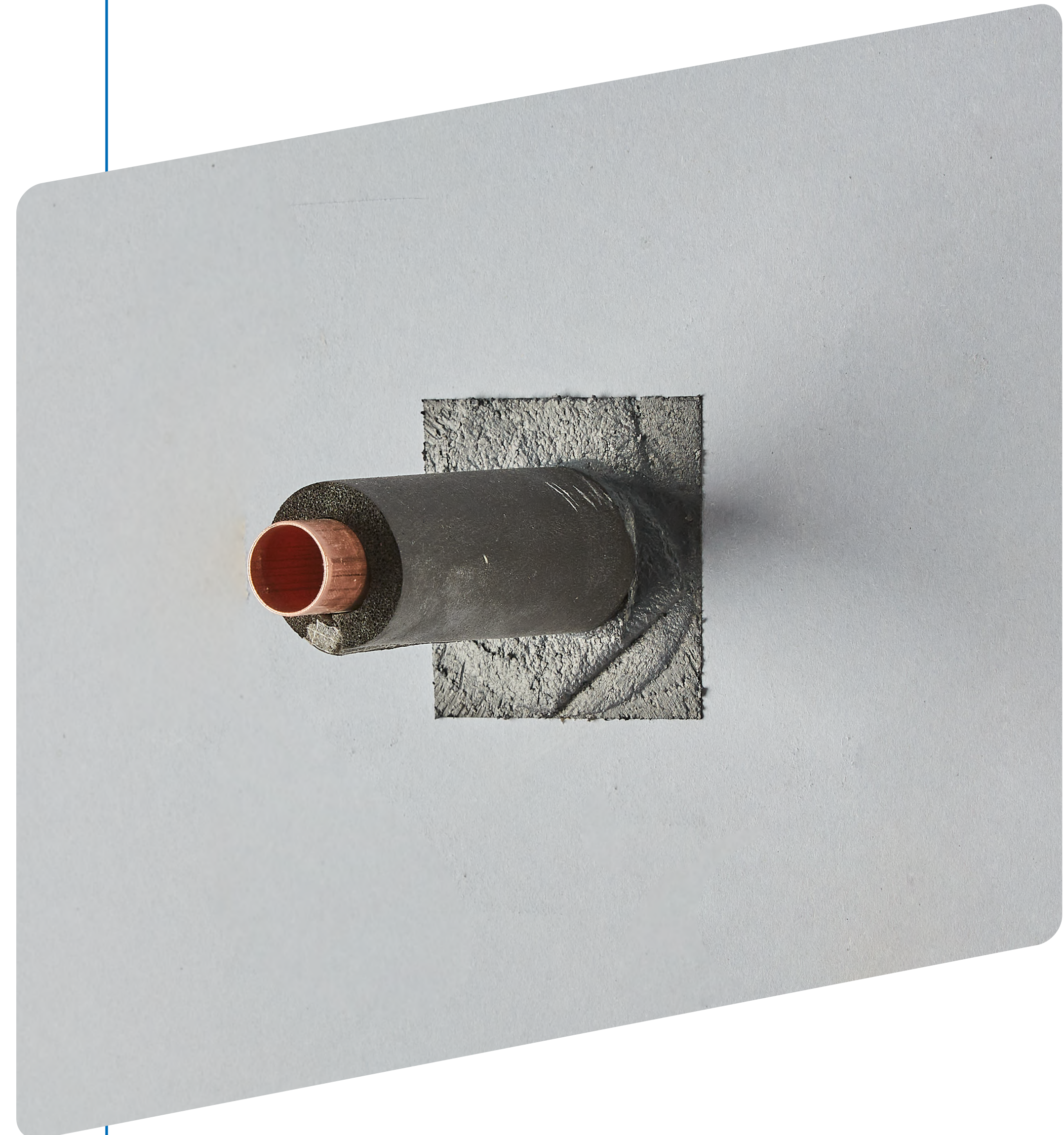
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## Properties

- Tested in various constructions for plastic pipes, cables, conduits and combustible pipe insulations
- Apply with a standard sealant gun
- Flexible - will accommodate movement up to 12.5 %
- Suitable for most surfaces, including concrete, bricks, Leca, steel, wood, gypsum, glass, plastics and most non-porous surfaces
- Cures quickly; tack-free after 1 hour
- Fire performance specification of the joint filler has been derived when the joint filler has been allowed to cure for 30 days
- Minimum 18 months shelf life
- The sealant is not intended for application on bituminous substrates or substrates that can exude certain oils and plasticizers or solvents.
- The sealant is not recommended for submerged joints or areas exposed to high abrasion.
- The sealant is not suitable for food contact or medical applications.
- 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](https://british-gypsum.com/SpecSure)



# Gyproc® Graphite Fire Sealant Installation Guide

## General guidance

### Tools required

- Sharp knife or scissor/snips
- Sealant gun
- Spatula

### Ancillary Items

- Stone mineral wool



### Health and Safety

- The mechanical effect of fibres in contact with skin may cause temporary itching
- Cover exposed skin
- When working in 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

### Supporting constructions

Flexible walls must have a minimum thickness of 100 mm and comprise steel studs or timber studs\* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

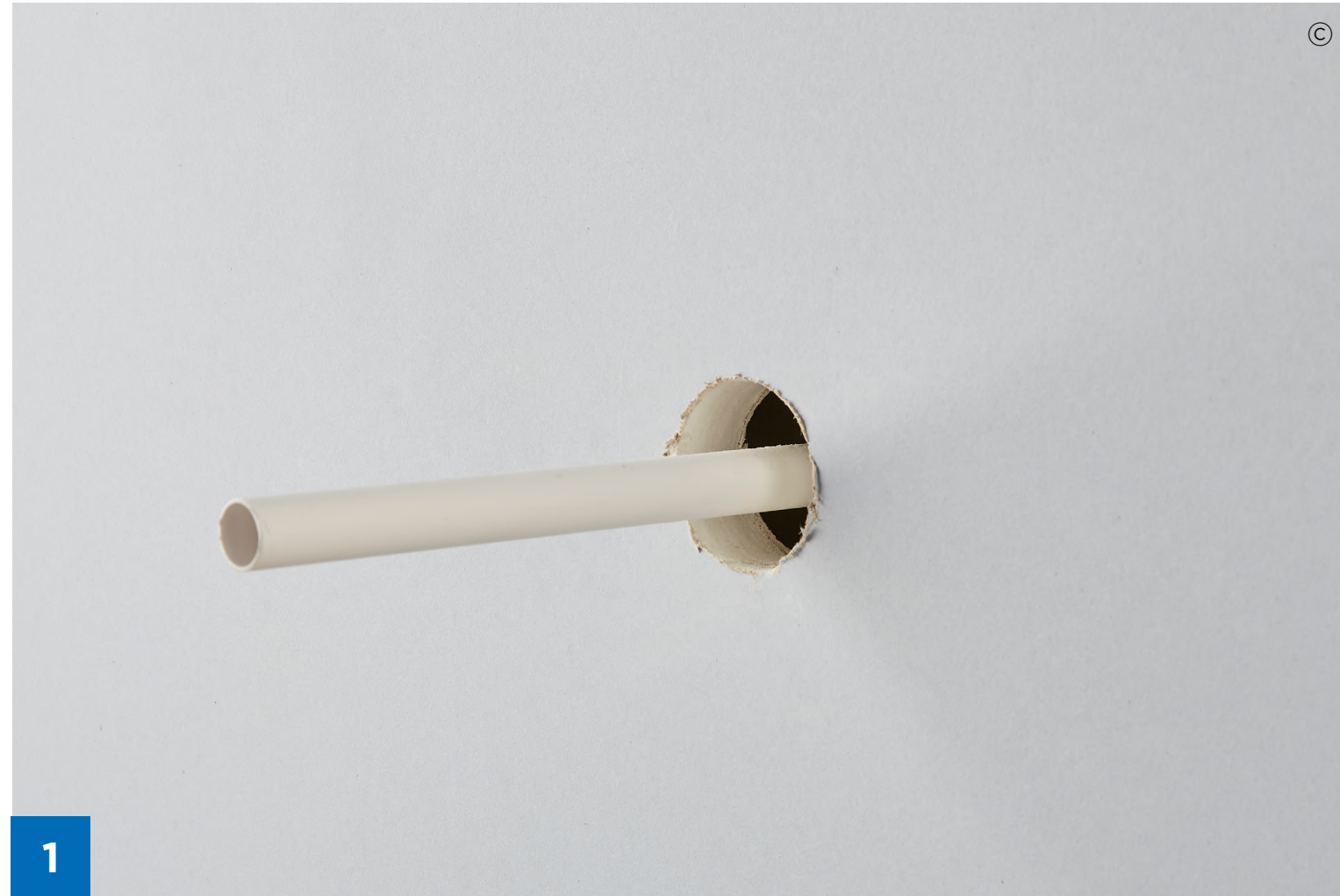
Rigid walls must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>. Rigid floors must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m<sup>3</sup>.

The supporting construction must have a proven fire resistance rating established through testing in accordance with the appropriate BS EN standard for the element or have a classified performance in line with BS EN 13501-2. The fire resistance rating must be at least equal to the required fire performance.

\* Timber studs: no part of the penetration seal may be closer than 100 mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to BS EN 13501-1 must be provided within the cavity between the penetration seal and the stud.

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## Installation



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

As Gyproc Graphite 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.



When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.

Fill the annular gap or joint with Gyproc Graphite Fire Sealant to the required depth.

Please refer to the relevant standard details for guidance on joint design/dimensions dependent service type and application.



Apply the sealant generously avoiding air bubbles. Strike off the sealant flush with the joint sides within five minutes of application, before surface skinning occurs. Finish the graphite fill with a moist spatula or pallet knife.

Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.

A small amount of shrinkage will occur on curing. If a flush finish is required, fill the joint slightly proud of the surface to allow for shrinkage.



**SAINT-GOBAIN**

**British Gypsum**

**Head Office, East Leake,  
Loughborough,  
Leicestershire, LE12 6HX  
T: 0115 945 1000**

**british-gypsum.com**



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