

CHARCOAT fire Passive Protection

CABLE AND PIPE PENETRATION SEALS

2 to 6 hour fire rated electrical cable and
PVC/Steel pipe penetration seals



CHARCOAT FIRESTOPPING

CHARCOAT FS Mortar



CharCoat FS Mortar

Up to 6 Hour Fire Ratings

CharCoat FS Mortar is a specially formulated gypsum based mortar, which is mixed with water to be trowelled or poured around service penetrations. Plastic pipework must be protected with either CharCoat Collars or Intumescent Pipe Wraps (see data sheets).

In floors, permanent formwork panel (50mm) is cut and friction fitted between services and the edges of the floor slab.

CharCoat FS Mortar is then trowelled over the formwork to a depth of 25mm thick. This is allowed to harden. The **CharCoat FS Mortar** is then mixed to a pouring grade and tops the seal up to the required depth.

In walls, **CharCoat FS Mortar** is mixed into a stiff consistency for trowelling into smaller openings. In larger openings, **CharCoat FS Mortar** can be cast into blocks which can be built into walls.

CharCoat FS Mortar will provide a water tight, air tight, smoke free and cold smoke seal.

CHARCOAT FS Panel



CharCoat FS Panel

Up to 4 Hour Fire Ratings

CharCoat FS Panel comprises of three CharCoat elements.

CharCoat FS Panel are manufactured by spraying 150kg/m³ high-density rock fibreboard with **CharCoat CC** fire rated latex coating. The coated panels are simply cut and friction fitted between the services and the edges of the structure.

Plastic pipework needs to be sealed with **CharCoat Intu Sealant** or sleeved with Insulated Fire Sleeves prior to installation of the coated panel system.

The **CharCoat Intu Sealant** is used as an adhesive on the edges of the panel to form a barrier with the surrounding structure. All joints in the barrier are sealed in with **CharCoat Intu Sealant** to form a monolithic layer.

The **CharCoat CC Coating** is largely used to make good any damaged coating or for a more aesthetic finish. In plasterboard partitions, the panel must be fitted to both sides of the wall to fire protect the studs. The panels can be fitted by either a pattress fix or by being cut into openings. For large floor openings we would advise using **CharCoat FS Mortar** (see technical data sheet).



CHARCOAT

Intu Sealant



CharCoat Intu Sealant

Up to 4 Hour Fire Ratings

CharCoat Intu Sealant is a high specification, one part water based acrylic sealant, extruded from a cartridge (or 25kg Pail) loaded into a standard sealant gun. For use in construction joints and cable / pipe penetration seals (CharCoat FS Panel Backing). The depth of the joint will depend on the gap to be filled and the fire rating required (see fire rating).

All surfaces must be thoroughly clean and free of bond breaking contaminants prior to application of the sealant. No priming is required for most construction substrates, however, it is recommended that a small area be tested on substrates.

The sealant should not be applied if the ambient temperature is below 5°C as adhesion will be impaired. The sealant is fast curing approximately 15 minute tack free time. When fully cured, the sealant is overpaintable. Under fire conditions the sealant forms a fire resistant ash.

CharCoat Intu Sealant provides a Weighted Sound Reduction Index (Rw) of up to 57dB. Please consult our sales office with details of:

- Type of construction
- Required acoustic rating
- Size of joint
- Corehole size
- Qty of Cable or Pipe



TRANSPORT / STORAGE

- Transport and store free from frost- preferably at a minimum of +5°C to a maximum of +30°C.
- shelf-life of unopened pails: 12 month from date of manufacture. Unopened pails must be re-sealed.

PACKAGING

Please refer to the Technical Data Sheet

SURFACE PREPARATION

Please refer to the Technical Data Sheet

APPLICATION

Please refer to the Technical Data Sheet

DRYING TIME

Please refer to the Technical Data Sheet

SAFETY AND THE ENVIRONMENT

Please refer to the Technical Data Sheet

PRODUCT	FIRE RATING MINUTES
CharCoat FS Mortar	up to 6 hours
CharCoat FS Panel	up to 4 hours (single Panel)
CharCoat Intu Seal	up to 4 hours
APPROVALS	DESCRIPTION
BS476, Part 20/22	CharCoat FS Mortar - Up to 2 hours 75mm - Up to 2 hours 25mm Mortar / 50mm Rockwool / 25mm Mortar - Up to 6 hours 100mm
BS476, Part 20/22	CharCoat FS Panel - Up to 4 hours (single Panel 1200 x 600 x 500mm Precoated)
BS476, Part 20/22	CharCoat Intu Sealant - Up to 4 hours Joint seal (wall or floor) - Up to 4 hours Cable/pipe (CharCoat FS Panel backing)

CHARCOAT

PASSIVE FIRE PROTECTION

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Disclaimer: The above data, particularly the recommendations for the application and use of Charcoat Passive Fire Protection products are based on the manufacturer's knowledge and experience. Due to different materials and conditions of application, which are beyond our control, we recommend in any case to carry out sufficient tests in order to ensure that Charcoat Passive Fire Protection products are suitable for the intended purpose and applications. Therefore, any liability for such recommendations or any oral advice is expressly excluded unless we have acted willfully or by gross negligence. It is always the responsibility of the installer / purchaser to guarantee correct preparation, DFT (Charcoat Coatings) and thickness (charcoat Firestop Products) of all Charcoat Passive Fire Protection products. Charcoat Passive Fire Protection is not liable for installation or faulty installation. It is always the responsibility of the installer / purchaser to guarantee and certify the installation of materials.

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