

CHARCOAT fire Passive Protection

FIRE RATED MORTAR

Up to 240 minute Fire rated Mortar for the Fire Protection of Electrical Cables, Pipes and Ducts



CHARCOAT FS MORTAR

General INFORMATION

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 FS Collars or Intumescent Pipe Wraps.

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.

Where TO INSTALL

CharCoat FS Mortar is used to provide a fire rated seal around service penetrations in fire rated walls and floors. Tested in accordance with BS 476:Part 20, BS 476:Part 22. CharCoat FS Mortar provides up to 6 hours fire protection.

General benefits:

- Smoke seal
- Good acoustic insulation
- Simple installation
- Load bearing seal
- Suitable to make good around most types of service penetrations
- Unaffected by humidity
- Maintenance free
- No smoke emission

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

Technical DATA

| Product | Fire Rating (minutes) |
|---|------------------------------|
| CharCoat FS Mortar | up to 240 minutes |
| Approvals | |
| BS476, Part 20 BS476, Part 22 AS1530, Part 4 BOMBA Malaysia BOMBA Indonesia | |
| Fire Rating | |
| 75mm Thickness | 1-2 Hours |
| 100mm Thickness | 3-6 Hours |
| Coverage | |
| 75mm Thickness | 3.15 x 22kg Bags / sq. meter |
| 100mm Thickness | 4.20 x 22kg Bags / sq. meter |

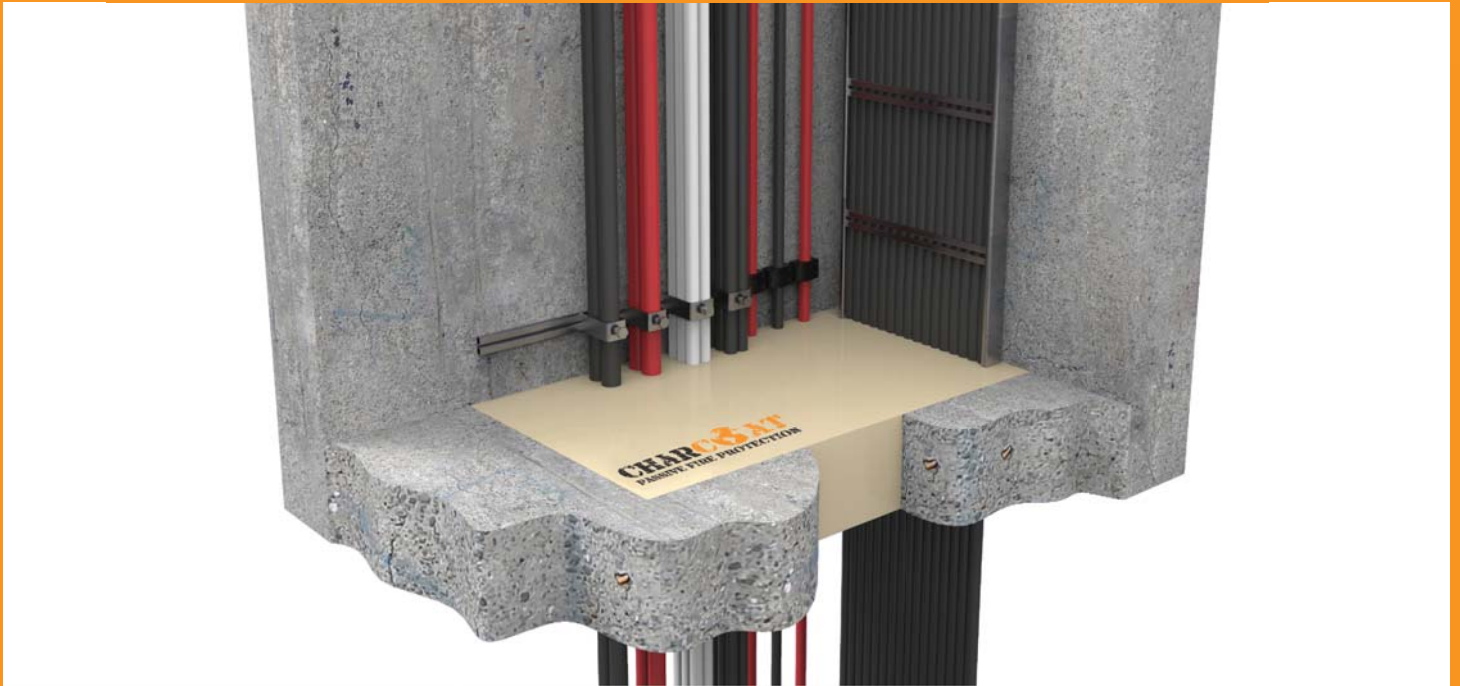
These are approximate calculations based on 22kg bags. The coverage does not take into account the percentage of the hole filled with services.

Install CharCoat FS Mortar to provide 1,2,3 or 4 hour fire rating to all service penetrations through all fire rated walls and floors. Installation to be fully in accordance with manufacturer's instructions.

| Thickness | Load Bearing Area |
|-----------|-------------------|
| 75mm | 500x500mm* |
| 100mm | 750x750mm* |

The open area free of services: thickness of seal ratios for non-reinforced seals given above, allow an ample safety margin for normal foot traffic e.g. loads of two men plus equipment with a combined weight of up to 200kg. CharCoat FS Mortar sets in 30-45 minutes and is capable of accommodating foot traffic in approximately 72 hours.

* As a further safety margin, we would recommend that all floor seals with clear areas greater than in the above table must be reinforced. Please contact our technical department for details.



Up to 240 minutes Fire Rating under BS476; Part 20, 22 requirements depending on the penetrating elements. 75mm - 100mm thickness dependant on the fire rating. We always recommend permanent formwork for safety.



Up to 240 minutes Fire Rating under BS476; Part 20, 22 requirements depending on the penetrating elements for load bearing seals. 75mm - 100mm thickness dependant on the fire rating. See previous table.



Up to 240 minutes Fire Rating under BS476; Part 20, 22 requirements depending on the penetrating elements. 25mm CharCoat FS Mortar either side of 50mm thick Mineral wool fibre x 150kg/m³

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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