

CABLE AND PIPE PENETRATION SEALS

CHARCOAT FIRESTOPPING

4 HOUR FIRE RATED ELECTRICAL
CABLE, PVC/STEEL PIPE AND JOINT
PENETRATION SEALS



CHARCOAT

CHARCOAT FM MORTAR



Code: CharCoat FM

Up to 4 Hour Fire and Insulation Ratings

CharCoat FM Mortar is a dry white powder consisting of inorganic compounds and perlite. When mixed with water the compounds form a highly thermal insulating fire seal which prevents the spread of fire and smoke through openings in fire rated walls and floors. This includes openings formed to accommodate building service penetrations.

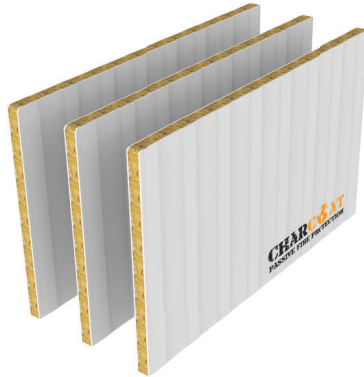
CharCoat FM expands by up to 1% by hydraulic action during curing, ensuring a very tight seal around service penetrations and the surrounding construction.

CharCoat FM has a rapid setting time and it's easy to sand or drill after cure. The compound dries to an off-white colour which may be painted if required.

CharCoat FM will also maintain the acoustic design performance in walls and floors.

CharCoat FM has great strength and adhesion properties with un-paralleled impact testing and the ability to withstand loads of up to 15kN concentrated load and 500Nm serviceability.

CHARCOAT FP PANEL



Code: CharCoat FP

Up to 4 Hour Fire and Insulation Ratings

CharCoat FP has been designed to maintain the fire resistance of separating walls/floors where they are breached by single or multiple building services. It consists of a rigid stone wool core, sealed with CharCoat CC Coating on 1 or both faces. The coating provides an important barrier to the passage of fire, smoke & hot gases through the thickness of the board, reducing the rate at which the stone wool core heats up. This provides a better heat sink for the dissipation of conducted heat through penetrations with higher thermal conductivity.

The selection of the board coated on 1 or both faces is determined by installation considerations & fire resistance requirements. On site, CharCoat FP must be used together with CharCoat IS Sealant for sealing around building services and the surrounding construction.

CharCoat FP is a high performance product carrying a classification code up to EI 240 in a wide range of application, making it unique and advanced in a constantly challenging sector. CharCoat FP is also tested in single and double board applications both within solid construction walls, floors and dry lining scenarios. Single board testing has made for faster and more cost effective installation.

CHARCOAT IS SEALANT



Code: CharCoat IS

Up to 4 Hour Fire and Insulation Ratings

CharCoat IS Acrylic Sealant is widely used in markets across Europe, Asia and the Middle East. Its exceptional certification across a wide range of fire-stopping applications makes it popular with installers, reducing the need to carry different mastics. Used in combination with CharCoat FP Panel establishes it as a unique fire rated sealant in the PFP market place.

CharCoat IS has been tested with various types of penetrations through walls, ceilings and floor constructions. Its intumescent property closes any gaps left by burnt away penetrations. It has a shelf life of 18 months.

CharCoat IS is able to cut down application times, minimize material use and cut down on intensive labour costs due to its ability to achieve high fire and insulation ratings with a single sided installation within solid construction elements such as block or concrete walls. It is designed not only for linear seals, but also sealing penetration openings for cables and pipes. It carries classification code up to EI 240 in a wide range of applications.

CharCoat IS is tested and approved for a vast range of services types and installations both within the New Build and Refurbishment Sectors. A few examples are large single cables, large cable bundles and an array of plastic and metal pipes (insulated or un-insulated). Tested in plaster, masonry and concrete constructions and can also be used within dry lining applications. CharCoat IS is one product with the flexibility of multiple applications.





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 product: 18 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 ENVIRONMENT

Please refer to the Technical Data Sheet



CHARCOAT

QUICK REFERENCE GUIDE

TYPE OF PENETRATION	SEALS WITHOUT PENETRATIONS						CABLES						STEEL PIPES	COPPER PIPES	ALUPEX PIPES	VENTILATION PIPES	PLASTIC PIPES												
	30mm	50mm	100mm	300x300mm	1200x2400mm	1200x∞mm	≤Ø21single	≤Ø21bundled	≤Ø50single	≤Ø50bundled	≤Ø80single	≤Ø80bundled	Trays & Ladders	Without Insulation	≤Ø325	Without Insulation	≤Ø54	Without Insulation	≤Ø75	≤1.2m x 1.7m	≤Ø1250	≤Ø32	≤Ø40	≤Ø75	≤Ø110	≤Ø160	≤Ø400	Conduits	PEX pipe-in-pipe
CHARCOAT IS	✓	✓	✓	✓	x	x	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x	✓	✓
CHARCOAT FM	✓	✓	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CHARCOAT FP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = YES | x = NO | 1) with CharCoat PW | 2) with dampers

PRODUCT	FIRE RATING (Hours)
CharCoat FM Mortar	Up to 6 Hours
CharCoat FP Panel	Up to 4 Hours (Single Panel)
CharCoat Intu Seal	Up to 4 Hours

APPROVALS	DESCRIPTION
CharCoat FM Mortar	
BS476, Part 20/22	- Up to 2 hours 75mm
BS476, Part 20/22	- Up to 2 hours 25mm Mortar / 50mm Rockwool / 25mm Mortar
BS476, Part 20/22	- Up to 6 hours 100mm
EN 1366-3	- Up to 4 hour EI240 (insulation) / E240 (integrity)
EN 13501-2	- Up to 4 hour EI240 (insulation) / E240 (integrity)
CharCoat FP Panel	
BS476, Part 20/22	- Up to 4 hours (single Panel 1200 x 600 x 50mm Precoated)
EN 1366-3	- Up to 4 hour EI240 (insulation) / E240 (integrity)
EN 13501-2	- Up to 4 hour EI240 (insulation) / E240 (integrity)
CharCoat IS	
BS476, Part 20/22	- Up to 4 hours Joint seal (wall or floor)
BS476, Part 20/22	- Up to 4 hours Cable/pipe (CharCoat FS Panel backing)
EN 1366-3	- Up to 4 hour EI240 (insulation) / E240 (integrity)
EN 13501-2	- Up to 4 hour EI240 (insulation) / E240 (integrity)

NOTE: All Testing and ETA (EN) certification completed UL-eu - Certificates of Conformity

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.



Suite 301 – 220 Brew Street, Port Moody, BC V3H 0H6 Canada
 ☎ +1 604 941 1001 ✉ mail@CharCoat.com 🌐 www.CharCoat.com

charcoatpfp     

SALES AND FRANCHISE OFFICES LOCATED IN:

AUSTRALIA/NZ | CENTRAL AMERICA | CHINA | HONG KONG | INDIA | ISRAEL
 MALAYSIA | PHILIPPINES | ROMANIA | SAUDI ARABIA | TURKEY | USA

AUTHOR	SEAN RITCHIE
VERSION	4.0
PURPOSE/CHANGES	PRODUCTS
DATE PUBLISHED	APRIL 2024