

# FIRECODE® Brand Compound



## High-performance, economical firestop material effectively stops spread of fire and smoke at through-penetrations

- Effective in numerous UL systems for through-penetrations and head-of-wall applications in USG™ Fire Stop Systems
- Enhances smoke and fire protection in curtain wall safing applications of THERMAFIBER® Life-Safety Fire Containment System
- Fast and easy to mix and apply
- Distinctive red color makes inspection and installation confirmation easy

## Description

**Low Cost Leader.** Both FIRECODE Brand Compound powder and premixed FIRECODE Brand Compound are much more economical to use than competitive products, especially for large scale jobs with lots of different penetrations. Cost of intumescent materials can be as much as 600% higher.

**Less Waste.** Caulking tube products are frequently discarded with some compound left so there's costly waste. With FIRECODE Brand Compound you mix only what's needed for the application at hand (mix powder-type with water and premixed-type with activator powder).

**Long Working Life.** Approx. 75 min. working time; sets in 2-3 hours. Several applications can be made from each batch.

**Surface Burning Characteristics.** Flame spread 0, smoke developed 0, when tested in accordance with ASTM E84 at Underwriters Laboratories.

**Non-Toxic.** There are no silicones, solvents, halogens, PCB's, asbestos or inorganic fibers of any kind. Rated non-toxic in accordance with the sixth draft of the University of Pittsburgh test method and the LC50 calculated using the Weil method.

**Tough, Durable Firestop.** FIRECODE Brand Compound forms a very tough, very durable firestop once it has hardened. It has withstood the thermal and mechanical shock of high-pressure hose stream testing.

**Easily Repaired.** FIRECODE Brand Compound is autobonding, that is, fresh compound will bond to cured compound, a big plus when making repairs due to construction damage or changes to penetrating items. Repair procedure has been evaluated by UL and tested to assure that the through-penetration firestop requirements of ASTM E814/UL 1479 are maintained.

**Easy to Mix.** FIRECODE Brand Compound powder mixes quickly and easily with water at jobsite. Consistency of the compound may be changed to suit the application at hand. FIRECODE Brand Compound premixed also mixes quickly and easily with FIRECODE Brand Compound Activator powder.

**Fast Setting.** Once mixed, FIRECODE Brand Compound hardens in 2 to 3 hours. And it bonds to concrete, metals, wood and cable jacketing, without the use of primers.

**Easily Identifiable.** Applied FIRECODE Brand Compound dries to a red color which is easily seen and identified by fire marshals.

**Paintable.** Applied FIRECODE Brand Compound may be sanded smooth and painted with either latex or oil-based paints.

## Limitations

1. FIRECODE Brand Compound should not be applied to moist areas or areas continuously immersed in water.
2. FIRECODE Brand Compound's setting action cannot be delayed or prevented by dilution with water.
3. The USG Fire Stop System in floor/ceiling applications is not designed to support loads from pedestrian or vehicular traffic.
4. FIRECODE Brand Compound should not be used for sustained extreme high temperature applications. Temperatures of penetrants should not exceed those typically found with domestic hot water systems (approximately 140 °F).

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**Application**

Maintain minimum surface, mix and air temperature of 50 °F (10 C°) within the building during and after installation. Clean substrate of dirt, dust, grease, oil, efflorescence, loose material and other matter.

**Trowel Application**

Mix FIRECODE Brand Compound according to directions on package. Using a trowel, putty knife or spatula, scoop the compound from its container and work it into the penetration opening. Apply compound to minimum 1/2" or 1" thickness (per system specifications) on top of safin insulation. Ensure that compound is in contact with all surfaces and that entire opening is filled with safin (if required for system applications) and compound.

**Spray Application—  
Mixing**

**FIRECODE Brand Compound Powder.** Use drinkable water and clean mixing equipment. Mix 8.5 to 9.0 pints water per 15 lbs. of FIRECODE Brand Compound. Mix powder thoroughly into water until powder is completely wet. Mix until smooth. Let initial mix soak approximately one minute. Remix approximately one minute, adding water necessary to achieve desired working consistency.

**FIRECODE Brand Compound Premixed.** Thin activated compound with water. Mix using drinkable water and clean mixing equipment. Use 0.5 pints water per gallon of FIRECODE Brand Compound premixed. Product will be stable for approximately one hour of spraying time.

Do not retemper either the powder or premixed compound. Hardening cannot be prevented or delayed by dilution with water. Do not intermix previously mixed or sprayed material into freshly mixed material. Intermixing will accelerate the chemical setting of FIRECODE Brand Compound, causing short working time, resulting in substandard bond and unsatisfactory surface matrix harness. Do not intermix with other types of compound. Store bags in a dry place. If moisture damage occurs, do not use any set lumps of material.

**Spray Application—  
Spray Equipment**

Roto/stator (Moyno pump) or peristaltic pump may be used. Use minimum length material hose with minimal line splices to reduce clogging. Product will be tank stable for one hour of spraying time. Prime pump and hose with water prior to spray application. Clean equipment thoroughly between and after applications. Use plaster system scouring sponges to prevent buildup inside hoses.

**Rotor/stator (Moyno pump).** Use Robbins-Myers 2L4 pump or similar equipment as minimum pump size, with pole gun with 1/4" to 3/8" round orifice. Use 3/4" to 1" i.d. material hose, 3/8" atomizing hose and 1/2" air line from the compressor to the pump.

**Peristaltic pump.** Use pump with minimum 1" i.d. internal pumping and material hose. Use pole gun with 1/4" to 3/8" round orifice. Use minimum 1" i.d. material hose, 3/8" atomizing hose and 1/2" air line from the compressor to the pump.

**Spraying**

Spray application rate of FIRECODE Brand Compound is approximately 2 gal. (462 cu. in.) per min. Typical spray patterns are between 1'-2' using 20-30 psi air pressure. The spray gun should be held as close to the penetration being filled as possible to reduce overspray and waste, typically 1'-2'. Avoid excessive air pressure. Material may be applied up to a 1" finished thickness in a single coat; however, best results are achieved by building up to the finished thickness in 1/2" coats. FIRECODE Brand Compound will stiffen approximately 15 min. after spray application, allowing for quick recoating or hand tooling. Set time of the sprayed material will be approximately 30% less than for the unpumped material.

Do not recycle material that has been pumped (such as wipedown or initial flushes of material). The pumping process accelerates set. If recycled material is mixed with fresh product, the material will set faster than normal and will set up in the equipment. The practice of recycling sprayed material will result in bond failure and unsatisfactory surface matrix hardness.

Do not let material sit in the hose for longer than 20 min. If longer breaks are needed, flush out the hose with water and then restart.

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**Product Data**

**Material:** Vinyl-type, non-asbestos formulation.

**Color:** Red.

**Density:** 74.8 lb./cu. ft. (1198.2 kg/m<sup>3</sup>).

**Shrinkage:** Less than 5%.

**Surface Burning Characteristics:** Flame spread 0, smoke developed 0.

**Storage:** Up to 9 months under good storage conditions. Close bags tightly and store in a dry place. Protect from freezing.

**Application Method:** Standard caulking gun application, trowel or spray application.

**Working Time:** Approximately 75 min.

**Setting Time:** 2-3 hours.

**Freezing Sensitivity:** None after set.

**Packaging:** 15 lb. (6.7 kg) bag; and 4.5 gal. (17.0 L) pail (which contains activator package).

**Submittal Approvals:**

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

**Trademarks**

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**Note**

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**Safety First!**

Follow good safety and industrial hygiene practices during handling and installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

