

USG SHEETROCK® BRAND FIRECODE® COMPOUND



DESCRIPTION

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
- 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
- GREENGUARD Gold certified and qualifies as a low VOC emitting material (CDPH Standard Method V1.1, also known as CA Section 01350)

UL SYSTEMS JOINT SYSTEMS

Cost Effective. USG Sheetrock® Brand Firecode® Compound is more economical than competitive products, especially for large-scale jobs with lots of different penetrations. Intumescent materials can cost as much as 600% higher.

Less Waste. Caulking tube products are frequently discarded with some compound left, leaving costly waste. With USG Sheetrock® Brand Firecode Compound, you mix only what's needed for the application at hand (mix powder-type with water).

Surface Burning Characteristics. Flame spread 0, smoke developed 0, when tested in accordance with UL ASTM E84.

Nontoxic. There are no silicones, solvents, halogens, PCBs, asbestos or inorganic fibers of any kind. Rated nontoxic in accordance with the sixth draft of the University of Pittsburgh test method and the LC50 calculated using the Weil method.

Tough, Durable Firestop. USG Sheetrock® Brand Firecode 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. USG Sheetrock® Brand Firecode Compound is autobonding, meaning that fresh compound will bond to cured compound. This is 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.

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

Paintable. Applied USG Sheetrock® Brand Firecode Compound may be sanded smooth and painted with either latex or oil-based paints.

PENETRATION FIRESTOPPING SYSTEMS

HW-D-0001, HW-D-002, HW-D-009, HW-D-0060, HW-D-0061, HW-D-0119, HW-D-0120, HW-D 1011, HW-S-0001, HW-S-0089

Through Wall: W-L-1027, W-L-1039, W-L-1063, W-L-1065, W-L-1087, W-L-3023, W-L-3034, W-L-5044, W-L-7001, W-L-7002

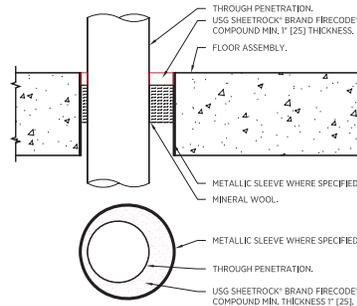
Through Slab: C-AJ-0032, C-AJ-1081, CA-J-3045

CURTAIN WALL SYSTEM

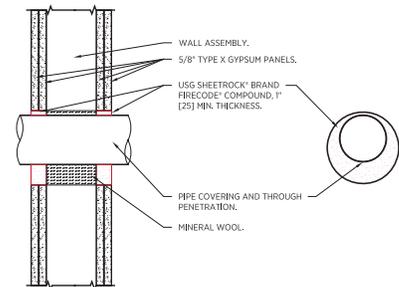
CW-S-1001, CW-S-2001, CW-S-2002

LIMITATIONS

SYSTEM NO. C-AJ-1081F-RATING 2- AND 3-HR/T-RATING 0-HR



SYSTEM NO. W-L-1027 F-RATING 2-HR/T-RATING 0-HR



1. Should not be applied to moist areas or areas continuously immersed in water.
2. 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. 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).
5. Maintain 55°F (13°C) minimum temperature within the building during and after installation.
6. Excessive water dilution causes cracking, poor bond and other problems.

APPLICATION

Substrate should be free from dirt, dust, grease, oil, efflorescence, loose material and other matter.

COVERAGE

Water Proportions and Approximate Coverage Rates*

Dry powder (lb.)	+Approx. water additions (pt.)	=Wet mixed compound (lb.)	=Approx. applied firestop (cu. in.)
1	0.5	1.5	33.6
5	2.5	7.7	172.5
7.5	3.8	11.5	257.6
10	5.0	15.4	344.9
15	7.5	23.1	517.4

* Based on approximately 7.5 pt. water per 15 lb. bag for wall penetrations. For floor penetrations, approximately 8.3 pt. Water per 15 lb. bag is recommended and yields approximately 537 cu. in. of applied fire stop.

MIXING

Use clean water and mixing equipment. For power mixing, use 1/2" heavy-duty drill operating at 200 to 300 rpm (400 rpm max). Mix powder thoroughly into water until completely wet. The initial mix should be slightly thicker or heavier than the desired working consistency. Mix until smooth. Let the initial mix soak for approx. one minute. Remix approximately one minute, adding water to achieve the desired working consistency.

TROWEL APPLICATION

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

Mix 8.5 to 9.0 pints water per 15 lb. of USG Sheetrock® Brand Firecode 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.

Do not retemper the powder. 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 USG Sheetrock® Brand Firecode 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 in material.

APPLICATION CONT.

SPRAY APPLICATION—SPRAY EQUIPMENT

SPRAYING

Rotor/stator 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: 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.

Spray application rate of USG Sheetrock® Brand Firecode 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 as possible to the penetration being filled 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. USG Sheetrock® Brand Firecode 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.

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

TRADEMARKS

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SAFETY FIRST!

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



PRODUCT DATA

Material: Vinyl-type, nonasbestos formulation

Color: Red

Density: 74.8 lb./cu. ft. (1198.2 kg/m³)

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: 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

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

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J1521-USA-ENG/rev. 11-16
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