USG SHEETROCK® BRAND FIRECODE® 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
- Enhances smoke and fire protection in curtain wall safety 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)

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.

UL SYSTEMS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UL SYSTEMS</th>
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<tbody>
<tr>
<td>Joint Systems</td>
<td>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</td>
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<tr>
<td>Curtain Wall System</td>
<td>Through Slab: C-AJ-0032, C-AJ-1081, CA-J-3045</td>
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Hardware manufacturers are required to comply with the California Green Building Standards Code (CCHS) and Local Requirements. For more information, visit www.epa.gov/mats or to download the California Green Building Standards Code (CCHS), visit bit.ly/Mats Chattanooga.
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.

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

<table>
<thead>
<tr>
<th>Water Proportions and Approximate Coverage Rates*</th>
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<tbody>
<tr>
<td>Dry powder (lb.)</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>7.5</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>15</td>
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* 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 337 cu. in. of applied fire stop.

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.

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 safing insulation. Ensure that compound is in contact with all surfaces and that entire opening is filled with safing (if required for system applications) and compound.

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

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.

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NOTICE
USG warrants that its joint treatment products are free
from defects in material and workmanship at the time of
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products were not used and applied according to USG's
current printed directions and specifications including,
with respect to using joint compound for a skim coat,
USG literature Finishing and Decorating Gypsum Panels
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consequential or special damages. For further details see
USG's standard limited warranty at usg.com. Any claim shall
be deemed waived unless made in writing to us within thirty
(30) days from date it was or reasonably should have been
discovered.

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.

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 build-up 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 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

<table>
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<tr>
<th>Contractor</th>
<th>Date</th>
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