BALCO®

A CSW Industrials Company

metacaulk®

FIRESTOP SOLUTIONS

PRODUCT CATALOG

balcousa.com/metacaulk

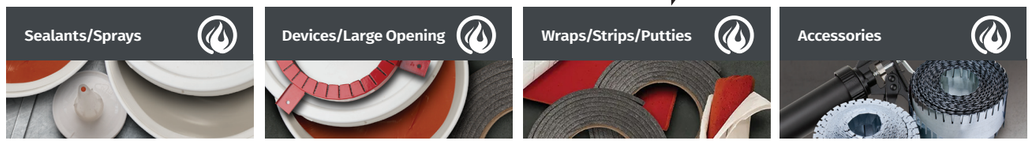
metacaulk®

FIRESTOP SOLUTIONS

We draw the line at fire and smoke protection.

- Advanced Firestop Solutions
- Complete Firestop Product offering

FIND IT ALL. FIND IT FAST. WWW.BALCOUSA.COM/METACAULK



Full online web resource

Experience why we are a global leader in firestop technology with our user friendly platform. Quick and easy access to our comprehensive portfolio and technical resource library.

UL System Selector

Designers can select the most appropriate system to best meet their specification or field conditions.

Third Holy Mosque Expansion Project

International reach

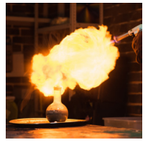
Take advantage of our many years of experience with a Metacaulk firestop specialist, who are available for training, demonstrations and consultancy throughout the complete project.

Advanced testing

Through biotech and technological advancement of materials and devices, Metacaulk strives to exceed fire containment accreditation standards worldwide.

Our on-site fire test laboratory

is engaged in all phases of fire endurance testing and evaluates product performance per ASTM E814 (UL 1479) and ASTM E1966 (UL 2079) standard test methods, including air and water leakage testing. On-site testing speeds development of new products and UL systems and provides the flexibility to quickly respond to customer needs.



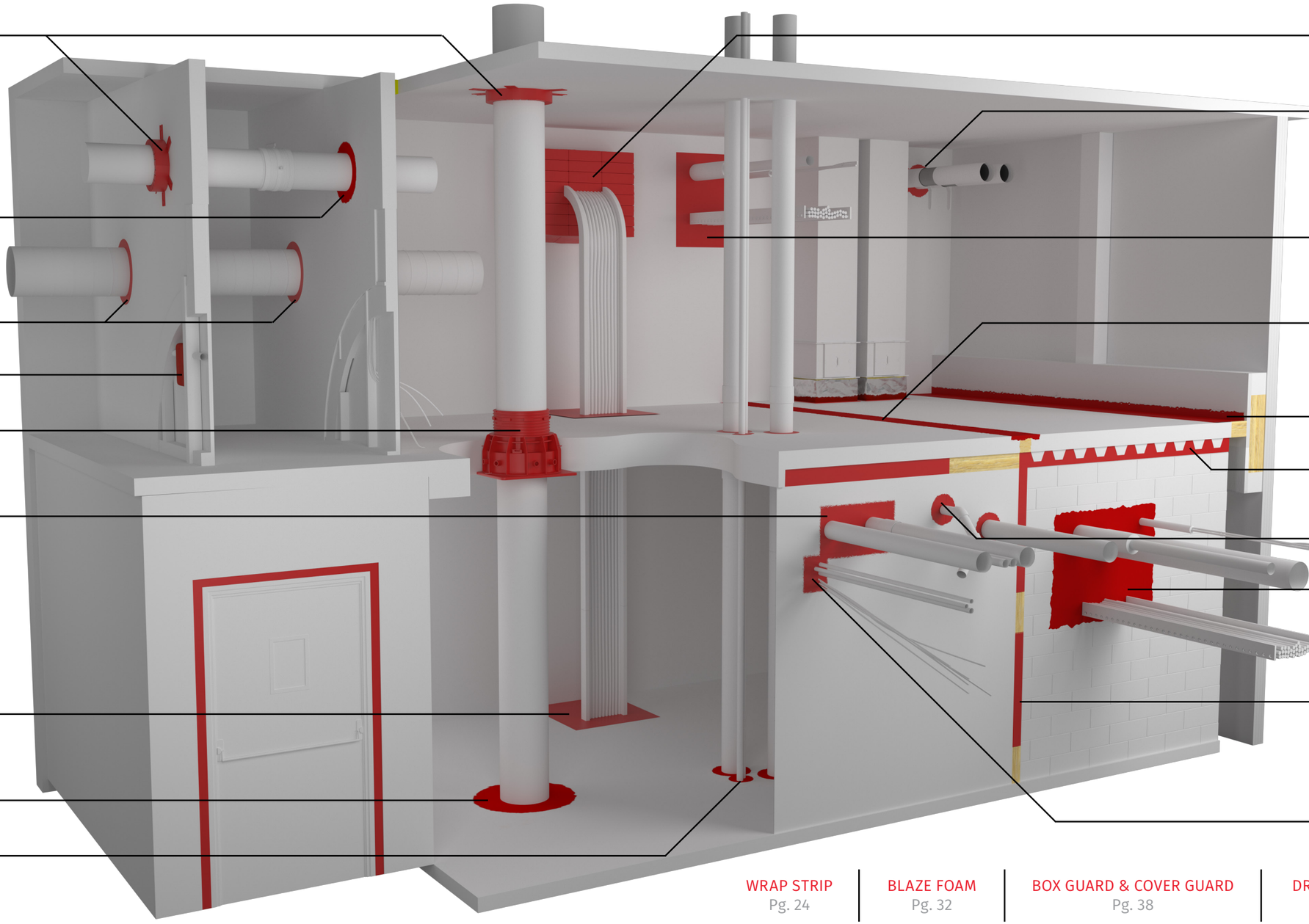
RS Academy

Self-directed e-learning courses for the firestop trades. Access free and unlimited expert-led courses anytime on your own schedule and desired platform. Additionally, you will receive customized course recommendations and a certificate of completion for each finished course.
Our course catalog will be updated with new and improved courses frequently. Sign-up today! rectorseal.com/academy.

LIMITED 30YR WARRANTY

metacaulk® FIRESTOP SOLUTIONS

Metacaulk products provide reliable and long-lasting protection against the spread of Fire, Smoke and Toxic Gasses in buildings, making them a trusted and dependable brand in the construction industry.



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Balco® Inc. | balcousa.com | 316.945.9328 | 800.767.0082

APPLICATION OVERVIEW

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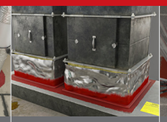
	 Metallic Pipes	 Combustible Pipes	 Cables	 Cable Trays	 Insulated Pipes	 Air Ducts	 Mix / Multi Penetrations	 Joints	 Perimeter Joints	ASTM E84	ASTM E814	ASTM E1966	ASTM E2307	ASTM G21-13	CAN/ ULC-S115, S101 & S102	ASTM E90	cUL	ULus	FM	FBC	Inter-Tek	Clean Air GOLD	
Metacaulk 150+	✓	✓	✓	✓	✓	✓	✓	✓	-	x	x	x	-	x	x	x	x	x	x	x	-	x	10
Metacaulk 1000	✓	✓	✓	✓	✓	✓	✓	✓	-	x	x	x	-	x	x	x	x	x	x	x	x	x	12
Metacaulk 1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	14
Metacaulk 835+	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	16
Metacaulk SAS	✓	-	-	-	-	-	-	✓	-	x	-	-	-	x	-	x	x	x	-	x	-	x	18
Metacaulk Cast-In-Place Device	✓	✓	✓	-	✓	-	✓	-	-	x	x	-	-	-	x	-	x	x	x	x	-	x	20
Metacaulk Wrap Strip	-	✓	✓	✓	✓	-	✓	-	-	x	x	-	-	-	x	-	x	x	x	x	-	x	24
Metacaulk Joint Strip	-	✓	-	✓	✓	✓	✓	✓	-	x	x	x	-	-	x	-	x	x	x	-	-	x	26
Metacaulk Firestop Collars	-	✓	✓	-	✓	-	✓	-	-	x	x	-	-	-	x	-	x	x	x	x	x	x	28
Metacaulk Intumescent Sleeve	-	✓	-	-	✓	-	✓	-	-	x	x	-	-	-	x	-	x	x	-	-	-	x	30
Metacaulk Blaze Foam	-	-	-	-	-	-	-	-	-	x	-	x	-	-	-	-	x	x	-	-	-	-	32
Metacaulk Firestop Pillows	✓	✓	✓	-	✓	-	✓	-	-	x	x	-	-	-	x	-	x	x	x	x	-	x	34
Metacaulk FRP Fire-Rated Putty	✓	-	✓	✓	-	-	✓	-	-	x	x	-	-	x	x	x	x	x	x	-	-	x	36
Metacaulk Composite Sheet	✓	✓	✓	✓	✓	✓	✓	-	-	x	x	-	-	-	x	-	x	x	x	x	-	x	40
Metacaulk Pass Thru Pro	-	-	✓	-	-	-	-	-	-	-	x	-	-	-	-	-	x	x	-	-	-	-	42
Metacaulk FRM Fire-Rated Mortar	✓	✓	-	-	-	-	✓	-	-	x	x	-	-	-	x	-	x	x	-	-	-	-	44
Metacaulk Box Guard Metacaulk Cover Guard	✓	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	x	-	x	-	x	-	38

Meeting and Exceeding Firestop Standards with Confidence

Quality and life safety are paramount to Balco and RectorSeal, investing much time, effort and resources to achieve these objectives.

We are committed to ensuring that all Metacaulk firestop products and systems meet or exceed the most stringent industry standards and testing. With our on-site fire test laboratory designated by UL under their Witness Test Data Program, we engage in all phases of fire endurance testing to evaluate product performance and durability making sure our products and systems remain at the forefront of our customer needs.

Metacaulk® Products have been tested to and assessed by one or more of the standards below:

- ASTM E84 (UL 723) – Surface Burning Characteristics of Building Materials
- ASTM E90 – Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E119 (UL 263) – Fire Tests of Building Construction and Materials Time Temperature Curve
- ASTM E814 (UL 1479) (CAN4-S115M) – Fire Tests of Through-Penetration Firestops
- ASTM E1966 (UL 2079) (CAN4-S115M) – Test Method for Fire Resistive Joints
- ASTM E1399 – Cyclic Movement and Measuring The Minimum Joint Widths of Architectural Joint Systems
- ASTM E2307 – Standard Test Method for Determining The Fire-Resistance of Perimeter Fire Barriers Using The Intermediate-Scale, Multi-Story Test Apparatus
- ASTM E662 – Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
- ASTM E162 – Standard Test Method for Surface Flammability of Materials Using A Radiant Heat Energy Source
- CAN/ULC S115, S101 and S102 - Standard method of fire test of firestop systems
- ASTM E834 - Standard test method for measuring residual gases
- ASTM C920 - Standard test method for measuring elasticity of sealants
- ASTM C719 - Standard test method for measuring adhesion and cohesion properties

Certifications and Approvals by one or more of the Listing Agencies below:

- UL is a global leader in testing, inspection, certification, auditing and validation
- FM (Factory Mutual) is an international leader in third-party certification and approval of commercial and industrial products
- Intertek is a leading Total Quality Assurance provider to industries worldwide
- FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology
- Clean Air Gold Certifies products for low chemical emissions

Intertek

CLASSIFIED C UL US

CERTIFIED CLEAN AIR GOLD

FM APPROVED

FBC SYSTEM COMPATIBLE

Intertek CONTROL NO. 5007154

LIMITED 30YR WARRANTY

Metacaulk Firestop products from RectorSeal offer industry-leading performance and are backed by a 30-year limited warranty. Professionals rely on Metacaulk products because they provide exceptional strength, longevity, and peace of mind from a legendary and proven product line.

RectorSeal's commitment to customer satisfaction provides Metacaulk users with excellent customer service that often exceeds expectations.

For complete information about the no registration limited warranty coverage, visit rectorseal.com/NoRegistration.

Metacaulk® 150+

General Purpose Firestop Sealant

FEATURES

- Flexible cure
- Non sag
- Freeze-thaw capabilities
- Mold inhibitor
- VOC compliant - CDPH Standard Method v1.2
- STC rating 65
- 3 year shelf life
- Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E1399, CAN/ULC-S115, S101, S102, ASTM G21, ASTM E84 (UL 723), ASTM E90
- UL Classified systems up to 4 hr
- Color: Red, Gray & White
- CPVC compatible

Metacaulk® 150+ is a single component, hybrid multi-purpose firestop sealant which is designed for a wide range of applications in both vertical and horizontal orientations. Tested in accordance with ASTM E814 (UL 1479) and ASTM E1966 (UL 2079) standards can provide up to a 4 hr fire resistance rating.

It exhibits excellent non-sag characteristics, and has been designed to help maintain the sound reduction index of a structure. It is easy to apply and cures to an elastomeric seal, suitable for where dynamic movement may occur, and is protected in a wet and dry stage against mold growth in accordance with ASTM G21.

RECOMMENDED FOR • Metallic pipes • Combustible pipes • Insulated pipes • Wood frame • Gypsum • Block construction • Construction joints • Air ducts • Single & bunched cables • Bus bars

Code	Description - (Red)	Qty
66648	10.3 oz (310 ml) Cartridge	12
66385	20.2 oz (600 ml) Sausage pack	12
66383	30 oz (900 ml) Cartridge	12
66389	5 gal (19 L) Pail	1
Code	**Description - (Gray)**	**Qty**
66424	20.2 oz (600ml) sausage pack	12
66425	5 gal (19L)	1
Code	**Description - (White)**	**Qty**
66396	20.2 oz (600ml) sausage pack	12

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

⚠ **WARNING**: This product can exposure you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Install the required backing material as per the detailed instructions or approved system.
3. Apply Metacaulk 150+ to required parameters as per detailed instruction or approved system making sure that it is in contact with all surfaces to provide maximum adhesion.
4. Tool sealant to a defect free finish using a wetted trowel or putty knife.
5. Clean all equipment with water immediately after use.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Water Based Acrylic
Color	Red, Gray & White
PH Value	7 to 8
Viscosity	300000 cp
Density (ISO 9427)	1.5 g/cc
Non Volatile (CDPH) Standard Method v1.2	Between 0.5 and 5.0 mg/m³
Ash Content (ISO 3451-1)	40%
Finger Print (ISO 11358/EN1767)	N/A
Loss of Ignition (ISO 4589-2)	N/A
Flexibility (ISO 1519)	Pass
Coverage Rate	1/4 in. (6 mm) bead 62 Linear feet (18.9 lm)
STC Rating (ASTM E90)	65
Application	Caulking Gun/Trowel
Elastomeric	Yes
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L
TVOC (Clean Air Gold)	0.5-5.0 mg/m³

Curing Times	
Skin Over Time	30 min. (at 77˚F/25˚C)
Cure Time	3 to 4 weeks (at 77˚F/25˚C)
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Properties	
Reaction Between	375˚F – 1100˚F 190˚C – 593˚C

Volume	
10.3 oz Tube	18 cu. in. (304 ml)
20 oz Sausage Pack	36 cu. in. (597 ml)
30 oz Tubes	54 cu. in. (887 ml)
5 gal/19 L Pail	1,155 cu. in. (18.9 liter)

ASTM E84	
Flame Spread	10
Smoke Index	10

Limitations

Metacaulk 150+ is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk 150+ should not be used against hot uninsulated surfaces above 300˚F (149˚C).

Storage & Handling

Metacaulk 150+ should be stored between 35˚F (2˚C) and 120˚F (49˚C) to obtain a 3 year shelf life.

Do not dilute, no mixing is required. Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products stored under protective cover in original containers.

Scan QR code for product details.

Metacaulk® 1000

Highly Intumescent Firestop Sealant

FEATURES

- Highly intumescent
- Non sag
- Freeze-thaw capabilities
- Mold inhibitor
- VOC compliant - CDPH Standard Method v1.2
- STC rating 62
- 3 year shelf life
- Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E1399, CAN/ULC-S115, S101, S102, ASTM E84 (UL723), ASTM E90, ASTM G21
- UL Classified systems up to 4 hr
- Complies to UL required Accelerated Aging and High Humidity Testing
- Color: Red

Metacaulk® 1000 is a single component water-based intumescent sealant which is suitable for sealing construction joints and service penetrations in both vertical and horizontal applications. Metacaulk 1000 can provide up to a 4 hr fire resistance rating in accordance with the ASTM E814 (UL1479), ASTM E1966 (UL 2079) test standards.

It exhibits excellent non-sag characteristics, and has been designed to help maintain the sound reduction index of a structure. It is easy to apply and cures to an elastomeric seal, suitable for where dynamic movement may occur.

RECOMMENDED FOR • Metallic pipes • Combustible pipes • Insulated pipes • Construction joints • Air ducts • Single & bunched cables • Cable trays & bus bars

Code	Description - (Red)	Qty
66640	10.3 oz (310 ml) Cartridge	12
66312	20.2 oz (600 ml) Sausage pack	12
66303	30 oz (900 ml) Cartridge	12
66309	5 gal (19 L) Pail	1

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

WARNING: This product can expose you to Acrylamide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Install the required backing material as per the detailed instructions or listed system.
3. Apply Metacaulk 1000 to required parameters as per detailed instructions or listed system making sure that it is in contact with all surfaces to provide maximum adhesion.
4. Tool sealant to a defect-free finish using a wetted trowel or putty knife.
5. Clean all equipment with water immediately after use.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Water Based Acrylic
Color	Red
PH Value	6.5 to 7
Viscosity	176000 cp
Density (ISO 9427)	1.36 g/cc
Non Volatile (ISO 3251)	79.20%
Ash Content (ISO 3451-1)	40.57%
Finger Print (ISO 11358/EN1767)	Cellulose Triacetate
Loss of Ignition (ISO 4589-2)	66.84%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	19.5 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Caulking Gun/Trowel
Elastomeric	Yes
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L

Curing Times	
Skin Over Time	30 min. (at 77˚F/25˚C)
Cure Time	3 to 4 weeks (at 77˚F/25˚C)
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:18
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.215 N/mm² (12.15 Bar)

Volume	
10.3 oz Tube	18 cu. in. (304 ml)
20 oz Sausage Pack	36 cu. in. (597 ml)
30 oz Tubes	54 cu. in. (887 ml)
5 gal/19 L Pail	1,155 cu. in. (18.9 liter)

ASTM E84	
Flame Spread	0
Smoke Index	0

Storage & Handling

Metacaulk 1000 should be stored between 35˚F (2˚C) and 120˚F (49˚C) to obtain a 3 year shelf life.

Do not dilute, no mixing is required. Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products stored under protective cover in original containers.

Limitations

Metacaulk 1000 is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk 1000 should not be used against hot uninsulated surfaces above 300˚F (149˚C).

Scan QR code for product details.

Metacaulk® 1200

Elastomeric Spray Mastic, Caulk, & Self-Leveling Firestop

Intertek
CONTROL NO.
5007154

FEATURES

- Flexible cure
- Non sag
- Freeze-thaw capabilities
- Mold inhibitor
- VOC compliant - CDPH Standard Method v1.2
- STC rating 65
- 3 year shelf life
- Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307, CAN/ULC-S115, S101, S102, ASTM E84 (UL723), ASTM E90, ASTM G21, ASTM C719
- UL Classified systems up to 4 hr
- Color: Red, White & Gray

Metacaulk® 1200 is a highly elastomeric firestop that is manufactured in sealant and spray formulations. It is designed for construction joints, including expansion joints, control joints, head of wall, bottom of wall, perimeter and curtain wall, and metallic pipe penetrations. Metacaulk has a higher than average STC rating so it is well suited for smoke and sound applications in smoke partitions, and even those that also have fire resistive ratings such as smoke barriers and fire barriers. Tested in accordance with ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307 standards to provide up to a 4 hr fire resistance rating.

It exhibits excellent non-sag characteristics, and has been designed to help maintain the sound reduction index of a structure in accordance with ASTM E90. It is easy to apply and cures to an elastomeric seal, suitable for where dynamic movement may occur (ASTM C719), and is protected in a wet and dry stage against mold growth in accordance with ASTM G21.

RECOMMENDED FOR • Metallic pipes • Insulated pipes • Insulated air duct • Single & bunched cables • Cable trays & bus bars • Construction joints • Perimeter fire barrier

Code	Description - (Red)	Qty
66292	20.2 oz (600 ml) Sausage pack	12
66015	30 oz (900 ml) Cartridge	12
66387	5 gal (19 L) Pail - Caulk Grade	1
66379	5 gal (19 L) Pail - Spray Grade	1
Code	**Description - (White)**	**Qty**
66294	20.2 oz (600 ml) Sausage pack	12
66525	30 oz (900 ml) Cartridge	12
66386	5 gal (19 L) Pail - Caulk Grade	1
66527	5 gal (19 L) Pail - Spray Grade	1
Code	**Description - (Gray)**	**Qty**
66293	20.2 oz (600 ml) Sausage pack - Self Leveling	12
66395	5 gal (19 L) Pail - Self Leveling	1

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Install the required backing material as per the detailed instructions or approved system.
3. Apply Metacaulk 1200 to required parameters as per detailed instruction or approved system making sure that it is in contact with all surfaces to provide maximum adhesion.
4. Caulk only: Tool sealant to a defect free finish using a wetted trowel or putty knife.
5. Spray only: Spray the required coating thickness to completely cover mineral wool and overspray a minimum 1/2" (or as recommended) beyond on all surrounding surfaces.
6. Clean all equipment with water immediately after use.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Water Based Acrylic
Color	Red, White & Gray
PH Value	7 to 9
Viscosity	Spray: 85,000 cp Caulk: 300,000 cp
Density (ISO 9427)	Spray: 1.25 g/cc Caulk: 1.35 g/cc
Non Volatile (CDPH) Standard Method v1.2	Between 0.5 and 5.0 mg/m^3
Ash Content (ISO 3451-1)	Spray: >32% Caulk: >38%
Finger Print (ISO 11358/EN1767)	N/A
Loss of Ignition (ISO 4589-2)	N/A
Flexibility (ISO 1519)	Pass
Coverage Rate	¼in. (6 mm) bead 62 Linear feet (18.9 lm)
STC Rating (ASTM E90)	65
Application	Caulking Gun/Trowel
Elastomeric (IAW ASTM C719)	Up to 50%
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L

Storage & Handling

Metacaulk 1200 sealant should be stored between 35˚F (2˚C) and 120˚F (49˚C) to obtain a 3 year shelf life for sealant, or 1 year shelf life for spray.

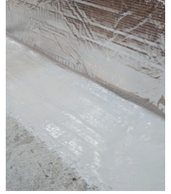
Do not dilute, no mixing is required. Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products stored under protective cover in original containers.

Curing Times	
Skin Over Time	30–45 min. (at 77˚F/25˚C)
Cure Time	3 to 4 weeks (at 77˚F/25˚C)
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C
Properties	
Reaction Between	375˚F – 1100˚F 190˚C – 593˚C
Volume	
20 oz Sausage Pack	36 cu. in. (597 ml)
30 oz Tubes	54 cu. in. (887 ml)
5 gal/19 L Pail	1,155 cu. in. (18.9 liter)
ASTM E84	
Flame Spread	0
Smoke Index	0

Limitations

Metacaulk 1200 is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk 1200 should not be used on hot uninsulated surfaces above 200˚F (93˚C).

Scan QR code for product details.



Metacaulk® 835+

Elastomeric Silicone Firestop Sealant & Spray

FEATURES

- Flexible cure
- Sealant/spray
- Non sag
- Fast-drying spray
- Freeze-thaw capabilities
- Mold inhibitor
- VOC compliant - CDPH Standard Method v1.2
- STC rating 55
- 2 year shelf life; 18 months for Spray
- STC rating 55
- Caulk - Meets ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G, A, O
- SL Self Leveling: Meets ASTM C920, Type S, Grade SL, Class 25, Use NT, M, A
- UL Classified systems up to 3 hr
- Color: Gray

Intertek CONTROL NO. 5009113 (SPRAY ONLY)

Metacaulk® 835+ is a single component, low modulus, non-slumping silicone firestop sealant designed for a variety of service penetration, construction and perimeter joint applications in both vertical and horizontal construction assemblies. Tested in accordance with ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307, ASTM E84 (UL723), CAN/ULC S115, S101 and S102 standards to provide up to a 3 hr fire resistance rating.

Resistant to cracking, ultraviolet radiation and ozone, it forms a pressure tight seal resistant to water, smoke and toxic gases and can be used for both internal or external applications. It help maintain the sound reduction index of a structure in accordance with ASTM E90, is easy to apply and cures to an elastomeric seal, suitable for where dynamic movement may occur (ASTM C719), and is protected in a wet and dry stage against mold growth.

RECOMMENDED FOR • Metallic pipes • Insulated pipes • Insulated air duct • Single & bunched cables • Cable trays & bus bars • Construction joints • Perimeter fire barrier

Spray

Code	Description - (Gray)	Qty
66645	10.15 oz (310 ml) Cartridge	12
66300	20.2 oz (600 ml) Sausage pack	12
66301	20.2 oz (600 ml) Sausage pack - Self-Leveling Grade	12
66019	5 gal (19 L) Pail	1
66295	5 gal (19 L) Spray	1

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Install the required backing material as per the detailed instructions or listed system.
3. Apply Metacaulk 835+ to required parameters as per detailed instructions or listed system making sure that it is in contact with all surfaces to provide maximum adhesion.
4. Caulk only: Tool sealant to a defect free finish using a wetted trowel or putty knife.
5. Spray only: Spray the required coating thickness to completely cover mineral wool and overspray a minimum 1/2" (or as recommended) beyond on all surrounding surfaces.
6. Clean all equipment with water immediately after use.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Silicone Base, Neutral moisture cure
Color	Gray
STC Rating (ASTM E90)	55
Viscosity	40,000 cp
Specific Gravity	1.33 g/cm³
Non Volatile (CDPH) Standard Method v1.2	0.22 mg/m³
100% Modulus (ASTM D423)	0.310 MPa (45 psi)
Dielectric Strength (ASTM D149)	19.0 kV/mm (479 V/mil)
LC50 - UPITT Combustion Toxicity	33 grams
Joint Movement (ASTM C920)	25+/-
Hardness Shore A (ASTM C661)	35
Elongation (ASTM D412 DieC)	600%
Tear Strength (ASTM D624)	6.13 kN/m (35 PPI)
Application	Caulking Gun/Trowel
Elastomeric	Yes
Freeze/Thaw	Excellent

Curing Times	
Skin Over Time	10–40 min. (at 77˚F/25˚C)
Cure Time	21 days (at 77˚F/25˚C)
Application Temperature between	-20˚F – 120˚F -29˚C – 499˚C

Properties	
Service Temp. Range (ASTM C1299)	-60˚F – 300˚F -51˚C – 149˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	N/A
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	N/A

Volume	
20 oz Sausage Pack	36 cu. in. (597 ml)
30 oz Tubes	54 cu. in. (887 ml)
5 gal/19 L Pail	1,155 cu. in. (18.9 liter)

ASTM E84	
Flame Spread	3
Smoke Index	22

Storage & Handling

Metacaulk 835+ should not be stored where the temperatures exceed 90˚F (32˚C) or drop below 40˚F (4˚C) to obtain a 2 year shelf life (18 months for spray).

Keep products stored under protective cover in original containers. A stock rotation program is recommended.

Limitations

Do not use Metacaulk 835+ in computer rooms without first consulting RectorSeal.

Scan QR code for product details.

METACAULK SMOKE AND ACOUSTIC SEALANT

Metacaulk® SAS/SAS90

General Purpose Smoke and Sound Sealant & Spray

FEATURES

- Meets LEED requirements for low emitting materials for adhesives and sealants
- Excellent for large openings
- Impedes sound transfer
- Water clean up
- Easy to dispense
- Use both vertically or horizontally
- Interior application
- STC rating 62-69
- 2 year shelf life
- Color: White

Metacaulk® Smoke and Acoustic Sealant is high-grade acrylic latex sealant formulated to provide a permanent seal for penetrations, membrane openings, and static or dynamic joints in smoke or sound rated assemblies. Metacaulk Smoke and Acoustic Sealant has been tested in accordance to the following standards: ASTM E84, ASTM E90, ASTM E1399, ASTM C834, ASTM G21 and tested for air leakage in accordance to modified UL 1479 and modified UL 2079, CAN/ULC S115, S101 and S102. Metacaulk Smoke and Acoustic Sealant meets the requirements for LEED criteria under Environmental Air Quality and Regional Materials. Metacaulk Smoke and Acoustic Sealant is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.

RECOMMENDED FOR • Metallic pipes • Combustible pipes • Insulated pipes • Construction joints • Air ducts • Single & bunched cables • Bus bars

Code	Description - (SAS White)	Qty
66651	5 gal (19 L) Caulk	1
66652	20.2 oz (600 ml) Sausage pack	12
Code	**Description - (SAS90 White)**	**Qty**
66653	5 gal (19 L) Caulk	1
66654	5 gal (19 L) Spray	1
66655	28 oz (828 ml) Fiber Tube	12
66656	20.2 oz (600 ml) Sausage pack	16

For 1-hour rated smoke barriers: Metacaulk 1200
See pg. 14

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all surfaces so they are free form loose debris and contaminants.
2. Push backing material into opening flush with the exposed surface or as required by system design.
3. Use recommended Metacaulk sealant as directed in testing documents for smoke sealant.
4. Clean all equipment with water immediately after use.

Refer to Safety Data Sheet for additional information.

Technical Data - SAS

Material Properties	
Chemical Base	Water Based Acrylic
Color	White
PH Value	6.5 to 8
Viscosity	
Density (ISO 9427)	Density Caulk 11.1 lbs./gal 1.33 kg/L - Spray 10.9 lbs/gal 1.31 kg/L
Non Volatile (ISO 3251)	TVOC 44.6 (µg m–3) per CDPH Standard Method V1.2, CA Section 01350. Test Results Pass Private Office (PO) & School Classroom (SC)
Ash Content (ISO 3451-1)	
Finger Print (ISO 11358/EN1767)	
Loss of Ignition (ISO 4589-2)	
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	
Insulation Efficiency (EN1363-1)	
Application	Caulking Gun/Trowel
Elastomeric	Yes
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L
TVOC (SAS90 Clean Air Gold)	≤0.5 mg/m³

Curing Times	
Skin Over Time	30 min. (at 77˚F/25˚C)
Cure Time	3 to 4 weeks (at 77˚F/25˚C)
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Volume	
10.3oz Tube	18 cu. in. (304 ml)
20 oz Sausage Pack	36 cu. in. (597 ml)
30 oz Tubes	54 cu. in. (887 ml)
5 gal/19 L Pail	1,155 cu. in. (18.9 liter)

ASTM E84	
Flame Spread	0
Smoke Index	5

Storage & Handling

Metacaulk Smoke and Acoustic Sealant should be stored between 35˚F (2˚C) and 120˚ F (49˚ C). to obtain a minimum 2 year shelf life, subject to inspection. NOTE: Do not dilute, no mixing is required. Keep from freezing. Keep products stored under protective cover in original containers.

Limitations

Metacaulk Smoke and Acoustic Sealant is not designed to be used in fire rated assemblies, conditions that are immersed in water or continuously wet. Metacaulk Smoke and Acoustic Sealant application temperature range is 40˚F to 120˚F and should not be installed on un-insulated surfaces that exceed 120˚F degrees

Scan QR code for product details.

CID

CAST-IN-PLACE DEVICE

Intumescent service supply

Metacaulk CID provides through floor firestop protection for all types of building service penetrations.

Action videos and full details
@ rectorseal.com/cid

Cast-In-Place Device

Firestop CID accessory for tub drains

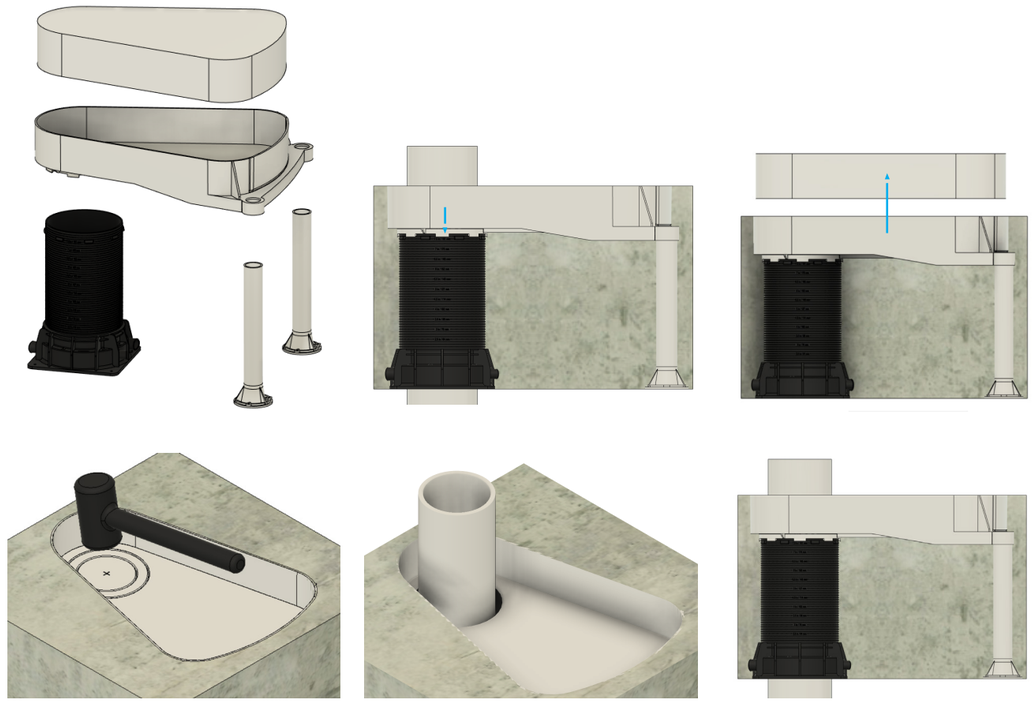
FEATURES

- Integral intumescent firestop
- UL classified systems up to 3 hr
- Eliminates drilling of concrete
- Available in two sizes to accommodate up to 2" & 3" pipes
- Maximum slab height with included components is 10"
- Tested in accordance with ASTM E814 (UL 1479)
- For slabs 10" or greater, Metacaulk CID extensions are available. Use 3/4" PVC coupling and pipe to extend the tub box legs as needed.

Designed to prevent the spread of fire from bathtub or jetted-tub drains to upper level. Installed prior to concrete pour.

RECOMMENDED FOR • Providing through penetration firestop protection for both plastic and metal drain pipes

Code	Description	Qty
67212	Tub Box with 2" Metacaulk CID	1
67213	Tub Box with 3" Metacaulk CID	1



Cast-In-Place Device

FEATURES
- Integral intumescent firestop
- UL CLASSIFIED systems up to 4 hr
- Eliminates drilling of concrete
- Reduces labor time
- Tested in accordance with ASTM E814 (UL 1479), CAN/ULC-S115, S101, S102
- VOC compliant - CDPH Standard Method v1.2

Firestop for Through Floor Penetration

Metacaulk® CID Cast-In-Place Device is a single component pass through system which has been design to form an embedded Firestop solution in concrete floor assemblies. Constructed from a highly durable virgin resin, the CID is strong enough to withstand the force and load of a concrete pour, but lightweight enough to permit easy placement and handling. It contains a powerful Intumescent graphite material which provide firestop protection for combustible and metallic pipes and all types of cabling. Tested in accordance with ASTM E814 (UL1479) CAN UL/C S-115, S101, S102 the CID can provide up to a 4 hr fire resistance rating.

Metacaulk CID Cast-In-Place Device comes complete with a wide range of features and accessories making it a truly versatile built in firestop solution. The connection alignment stubs allow easy, unlimited grouping to optimize through penetration's foot print, while the 'snap-fit' cover cap, extension sleeve and metal deck adaptor cater for many variations of floor assemblies.

RECOMMENDED FOR • Combustible plastic/metal pipe, power & telephone cable floor penetrations in multi-floor construction
• Installs using either temporary wood or metal forms

Code	Cast-in-Place Device	Qty
67202	2-inch device (8-in. height)	12
67203	3-inch device (8-in. height)	12
67204	4-inch device (8-in. height)	12
67206	6-inch device (8-in. height)	6
Code	**Height Extension**	**Qty**
67232	4-in. extension for 2-in. device	6
67233	4-in. extension for 3-in. device	6
67234	4-in. extension for 4-in. device	6
67236	4-in. extension for 6-in. device	6
Code	**Deck Adapter Kit**	**Qty**
67222	2-in. adapter w/4 in. ext.	6
67223	3-in. adapter w/4 in. ext.	6
67224	4-in. adapter w/4 in. ext.	6
67226	6-in. adapter w/4 in. ext.	6

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Installation Instructions

1. Select Metacaulk CID to fit the diameter of penetrant being used, assuring annular space is within limits set by the detailed design or listed system.
2. Position the Metacaulk CID on concrete forms, and secure by nailing or screwing through fastening holes on the bottom of the flange.
3. For metal decking applications, cut hole in the corrugated metal deck to the size of Metacaulk CID being used.
4. Use metal deck adapter kit to install the CID by attaching deck support to bottom flange then insert extension tube into the bottom of the Metacaulk CID.
5. Insert extension tube through the precut hole in decking & fasten decking supports to deck with screws.
6. Ensure extension is sealed to prevent leakage of concrete through decking.
7. Metacaulk CID alignment connectors allow tight placement of multiple devices / penetrations.
8. If finished concrete is lower than the height of Metacaulk CID, then cut the Metacaulk CID to match finished pour height.
9. If finished concrete is higher than the Metacaulk CID, then insert appropriate size Metacaulk CID extension onto device aligning connector tabs from CID with extension receiving slots. Attach additional extensions to reach desired height.
10. Before pouring concrete, ensure Metacaulk snap-fit cover cap is in place to prevent the flow of concrete into the device.
11. Once the concrete is cured, remove the Metacaulk CID snap-fit cover cap and the device is ready to use.
12. Insert the desired penetrant.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	7737 g/m³
Density (ISO 9427)	1334 kg/m³
Non Volatile (ISO 3251)	98.60%
Ash Content (ISO 3451-1)	42.61%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	82.89%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	17.3 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Storage & Handling

Metacaulk CID should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:20
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.330 N/mm² (13.3 Bar)

Coverage Rates

No measurement of material required

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.

Wrap Strip

Flexible Intumescent Strip for Combustible Service

FEATURES

- Highly intumescent
- Flexible
- Freeze-thaw capabilities
- VOC compliant - CDPH Standard Method v1.2
- Tested I.A.W ASTM E814 (UL 1479), ASTM E119 (UL263), ASTM G21 CAN/ULC-S115, S101, S102
- UL Classified systems up to 4 hr
- Complies to UL required Accelerated Aging and High Humidity Testing

Metacaulk® Wrap Strip is a highly intumescent, graphite-based composition based on an elastomeric synthetic compound. Designed for use around combustible services in both vertical and horizontal application in a wide range of building materials. Tested in accordance with ASTM E814 (UL1479) and ASTM E119 (UL 263) standards to provide up to a 4 hr fire resistance rating.

RECOMMENDED FOR • Combustible pipes • Insulated pipes • Single & bunched cables • Cable trays

Code	Description	Qty
66440	1" X 18 ft (25 mm X 5.5 m)	2
66442	2" X 18 ft (50 mm X 5.5 m)	1
66441	1" X 36 ft (25 mm X 11 m)	4
66443	2" X 36 ft (50 mm X 11 m)	2

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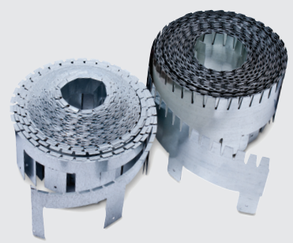
Often used with Universal Collars

See pg. 47



Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all surfaces so they are free from loose debris and contaminants.
2. Tightly wrap the required number of strips continuously around the penetrant to completely fill the annular space or as required by detailed design or listed system and secure with tape.
3. Push the strips into the opening to the required depth as directed by the detailed design or listed system.
4. If a cold smoke seal is required, apply the recommended sealant in the opening over the strips as directed in the detail instructions or listed design.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	7737 g/m³
Density (ISO 9427)	1334 kg/m³
Non Volatile (ISO 3251)	98.60%
Ash Content (ISO 3451-1)	42.61%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	82.89%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	17.3 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:20
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.330 N/mm² (13.3 Bar)

Storage & Handling

Metacaulk Wrap Strip should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Coverage Rates

Calculate the circumference of the penetrant, for pipes/ circular (2πr) or for square/rectangle (L x W)

Example:
For 4in (100 mm) pipe -
2 x π x 4in (100 mm) = 629.4 mm

Length of wrap strip:
L = 18ft or 5.5M (5486.4 mm)
L = 36ft or 10.9M (10,972.8 mm)

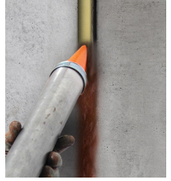
Therefore C divided by L = No. of applications.
Note: Multiple layers of wrap strip will change the circumference on consecutive layers.

ASTM E84	
Flame Spread	0
Smoke Index	20

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.



Joint Strip

Universal Flexible Intumescent Material

FEATURES

- Highly intumescent
- Flexible
- Freeze-thaw capabilities
- VOC compliant - CDPH Standard Method v1.2
- Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL2079), NFPA 252, UL10c, & CANS 4S104, CAN/ULC S115, S101 and S102
- UL Classified systems up to 4 hr
- Complies to UL required Accelerated Aging and High Humidity Testing

Metacaulk® Joint Strip is a 1/16 in. (1.5mm) thick highly intumescent, graphite-based composition based on an elastomeric synthetic compound. Designed for both combustible service penetrations and construction joints in vertical and horizontal applications in a wide range of building materials. Tested in accordance with ASTM E814 (UL1479), ASTM E1966 (UL 2079) can provide up to a 4 hr fire resistance rating.

RECOMMENDED FOR • Combustible pipes (PVC, CPVC, XFR, PP, HDPE, RNC, ABS) • Insulated pipes • Insulated ducts • Single and bunched cables • Mixed power • Telecom • Cable trays • Construction joints

Code	Description	Qty
66700	1" X 82 ft (25 mm X 25 m)	6
66701	1-1/2" X 82 ft (40 mm X 25 m)	4
66702	2-1/2" X 82 ft (65 mm X 25 m)	4
66703	3" X 82 ft (75 mm X 2 5m)	2
66704	2" X 82 ft (50 mm X 25 m)	3
66705	4" X 82 ft (100 mm X 25 m)	2

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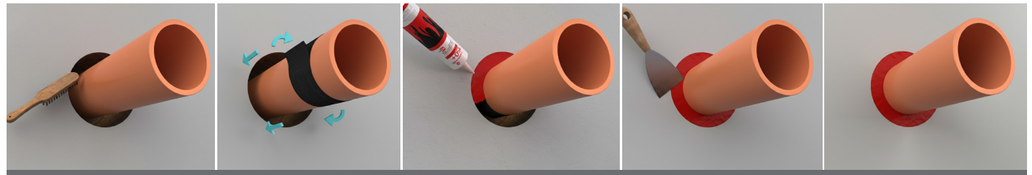


Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all surfaces so they are free from loose debris and contaminants.
2. Install the required backing material as per detailed instructions or listed design.
3. JOINTS - Friction fit Metacaulk Joint Strip longitudinal into joint, using backer rod as the transport mechanism.
4. PENETRANT - Tightly wrap the required number of strips continuously around the penetrant to completely fill the annular space or as required by detailed design or listed system and secure with tape.
5. Push the strips into the opening to the required depth as directed by the detailed design or listed system.
6. Apply the recommended sealant in the opening / annulus over the joint strip as directed in the detail design or listed system.
7. Clean all equipment immediately with water after use.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	1820 g/m³
Density (ISO 9427)	1275 kg/m³
Non Volatile (ISO 3251)	99.00%
Ash Content (ISO 3451-1)	41.06%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	83.47%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	13.1 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Storage & Handling

Metacaulk Joint Strip should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.391 N/mm² (13.91 Bar)

Coverage Rates

Calculate the circumference of the penetrant, for pipes/ circular (2πr) or for square/rectangle (L x W)

Example:
For 4in (100 mm) pipe -
2 x π x 4in (100 mm) = 629.4 mm

Length of joint strip:
L = 82ft (25M)

Therefore C divided by L = No. of applications.
Note: Multiple layers of wrap strip will change the circumference on consecutive layers.

ASTM E84	
Flame Spread	0
Smoke Index	20

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.

Metacaulk® Firestop Collars

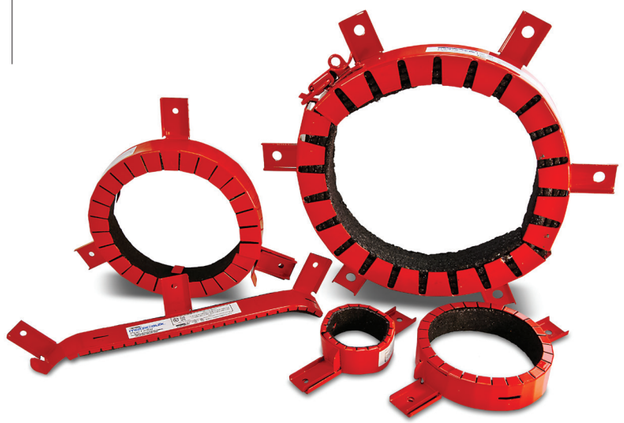
Prefabricated System

FEATURES

- Economical - 25% reduction of installation times
- Fits in limited access areas
- Pre-fixed attachment lugs
- Open & closed pipe systems
- Tested I.A.W ASTM E814 (UL 1479), CAN/ULC-S115, S101, S102
- UL Classified systems up to 3 hr
- Complies to UL required Accelerated Aging and High Humidity Testing
- FBC System Compatible

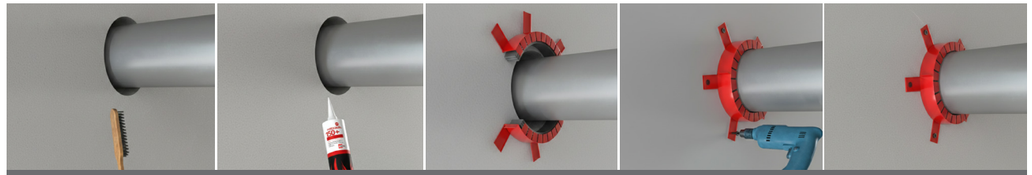
Metacaulk® Firestop Collars are a prefabricated, powder coated, galvanized steel housing which contains a highly reactive graphite-based intumescent material. The easy locking tab and integrated anchoring flanges ensures quick and efficient installation on a wide range of combustible pipe materials, single or bunched cables and insulated pipes. Tested in accordance with ASTM E814 (UL1479), ASTM E119 (UL 263) and CAN/ULC-S115.

RECOMMENDED FOR • Single & bunched cables • Combustible pipes (PVC, CPVC, ABS, FRPP, PEX tubing , PP, PVDF, UPVC and XFR-PVC) • Insulated pipes (PVC/ABS, foam core, glass wool)



Code	Description	Qty
66352	1-½" (25-32 mm) Pipe Collar	12
66353	2" (50 mm) Pipe Collar	12
66350	3" (75 mm) Pipe Collar	6
66351	4" (100 mm) Pipe Collar	6
66354	6" (150 mm) Pipe Collar	2

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.



Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all surfaces so they are free from loose debris and contaminants.
2. Select the correct size Firestop Collars to fit the diameter of penetrant, making sure the annulus is within the limits of the detailed instructions or listed design.
3. If an additional smoke seal is required, then apply the recommended sealant within the annulus as directed in the detailed instruction or listed design before mechanical attaching the FR Collar to the building assembly.
4. Attach Firestop Collars around the penetrant on the underside of the floor or to each side of a wall by firmly placing against the building assembly surface and securing the interlocking tabs.
5. If needed, mark and pre-drill building assembly surface for correct positioning of Firestop Collars.
6. Secure using appropriate anchors through the anchoring tabs as per detailed instructions or listed design.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	7737 g/m³
Density (ISO 9427)	1334 kg/m³
Non Volatile (ISO 3251)	98.60%
Ash Content (ISO 3451-1)	42.61%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	82.89%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	17.3 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:20
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.330 N/mm² (13.3 Bar)

Coverage Rates

No measurement of material required

ASTM E84	
Flame Spread	0
Smoke Index	20

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Storage & Handling

Metacaulk firestop collars should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Scan QR code for product details.

Metacaulk® Intumescent Sleeves

Intumescent Firestop Penetration Device

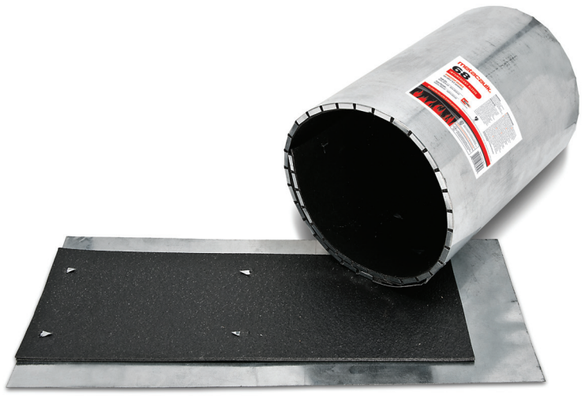
FEATURES

- Labor-saving
- No steel bolts or fasteners
- Retrofit
- Flat and fluted concrete decks
- Installs from the top of the floor
- CMU, block, and gypsum walls
- Good alternative to collars
- Open & closed pipe systems
- Double sleeves up to 12" diameter
- Tested I.A.W ASTM E814 (UL 1479), CAN/ULC-S115, S101, S102
- UL Classified systems up to 3 hr
- Complies to UL required Accelerated Aging and High Humidity Testing
- Y 45- and 90-degree applications

Metacaulk® Intumescent Sleeves are a prefabricated, galvanized steel sheet which is lined with a highly reactive graphite-based intumescent material. The intumescent sleeve simply wraps around the combustible penetrant and held in place with either tape or pipe clamps. It can be slid into position through the fire rated assembly from the top of the floor, and is ideal for uneven contours of a concrete fluted deck assemblies or where the penetrant is less than a 90° angle. Tested in accordance with ASTM E814 (UL1479), ASTM E119 (UL 263), CAN/ULC-S115.

RECOMMENDED FOR • Combustible pipes (PVC, CPVC, ABS, FRPP, PEX tubing , PP, PVDF, RNC) • Insulated pipes (PVC, CPVC, EPDM, glass wool)

Code	Description	Qty
66584	2", 3" & 4" (50, 75 & 100 mm) pipe	6
66582	6" & 8" (150 & 200 mm) pipe	1



Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all surfaces so they are free from loose debris and contaminants.
2. Select the correct size Intumescent Sleeve to fit the diameter of penetrant.
3. Wrap Intumescent Sleeve around penetrant from either side of the building assembly with the intumescent material facing inwards allowing bare metal end to overlap approx. 2 in. (51 mm).
4. Loosely secure the Intumescent Sleeve around penetrant with either tape, hose clamps or tie wire.
5. Push/slide the Intumescent Sleeve through building assembly so that it is centered within the opening and equal length of Intumescent Sleeve protrudes from the building assembly surface and tightly secure.
6. Intumescent Sleeve requires a Min. 1/4 in. (6 mm) annulus between periphery of opening and Intumescent Sleeve.
7. Install the required backing material as per detailed instructions or listed design.
8. Apply the recommended sealant in annulus as directed in the detailed instructions or listed design.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	1820 g/m^3
Density (ISO 9427)	1275 kg/m^3
Non Volatile (ISO 3251)	99.00%
Ash Content (ISO 3451-1)	41.06%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	83.47%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	13.1 mJ/m^2
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Storage & Handling

Metacaulk Intumescent Sleeves should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.391 N/mm^2 (13.91 Bar)

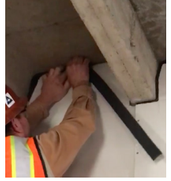
Coverage Rates

No measurement of material required

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.



Blaze Foam™

Universal Flexible Intumescent Material

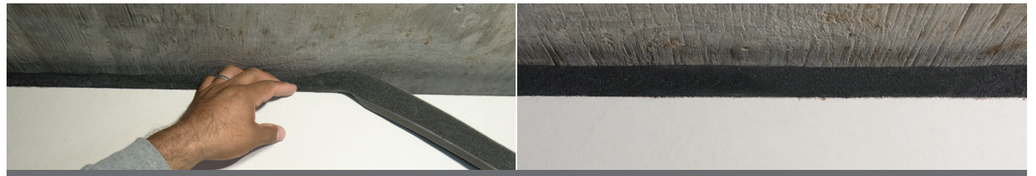
FEATURES

- Quick & Easy Install
- Flexible
- Not Affected by Temperature
- No Hazardous Ingredients
- No Mechanical Fastening Required
- Up to 50% compression & 100% extension
- STC Rating 64
- Tested I.A.W ASTM E1966 (UL2079)
- L Rating < 1 CFM/LF

Metacaulk® Blaze Foam™ is a pre-formed, highly intumescent, compressible foam designed to reinstate the fire resistance of construction joint applications in both vertical and horizontal orientations. Tested in accordance with ASTM E1966 (UL2079), ASTM E119 (UL263), ASTM E84 (UL723), CAN/ULC S115, S101 and S102 standards to provide up to a 3hr fire resistance rating, and to maintain the sound reduction index of a structure in accordance with ASTM E90. It is quick and easy to install with no form of mechanical fixing required.

RECOMMENDED FOR • Head of gypsum wall, wall to wall and bottom wall joint applications both dynamic and static • For 1, 2 & 3 hour rated gypsum walls

Code	Description	Qty
66024	48" X ⅝" X 1 ½"	80



Installation Instructions

Note: Firestop material must be installed in accordance with the detailed instructions or the listed system.

1. Ensure that the joint area is clean, dry, and clear of any debris or obstruction.
2. Holding the Blaze Foam with the intumescent strip facing down, compress the foam so that it can be placed within the joint between the top of the gypsum wall and the bottom of the concrete floor assembly.
3. Continue down the length of the joint, compressing the Blaze Foam and pushing it into the joint area. To aid in installation, a putty knife or trowel may be used to compress the Blaze Foam and slide it into place.
4. Blaze Foam can be installed flush with the outside plane of the wall or recessed against the top track runner. Ensure the intumescent strip lays flat on the top edge of the gypsum wall.
5. Blaze Foam should be tightly butted together end to end, ensuring there is no open space between two Blaze Foam pieces for all joints, including inside and outside corners.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	1820 g/m³
Density (ISO 9427)	1275 kg/m³
Non Volatile (ISO 3251)	99.00%
Ash Content (ISO 3451-1)	41.06%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	83.47%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	13.1 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L

Storage & Handling

RectorSeal Blaze Foam should be stored in a cool, dry place between 0˚F (-18˚C) to 120˚F (49˚C) to obtain a minimum 10 year shelf life. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Curing Times	
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

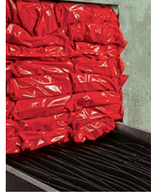
Intumescent Properties	
Expansion Between	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.391 N/mm² (13.91 Bar)

ASTM E84	
Flame Spread	N/A
Smoke Index	N/A

Limitations

To be used only in the tested configurations or as recommended by RectorSeal. Blaze Foam is not used in joints that require movement greater than 1".

Scan QR code for product details.



Firestop Pillows

FEATURES

- Easy to install
- Re-enterable
- Re-usable
- Dry installation
- Tested I.A.W ASTM E814 (UL 1479), CAN/ULC-S115, S101, S102
- UL Classified systems up to 3 hr
- FM Approved 3971 & 4990

For Large Temporary Openings

Metacaulk® Firestop Pillows are a unique combination of a highly intumescent graphite material, mixed with a mineral fibre blend covered in a durable PVC bag. Designed for either temporary or permanent installation, for a wide range of applications in both vertical and horizontal orientations. Metacaulk Pillows are a reusable, easy to install and have been tested in accordance with ASTM E814 (UL1479) to provide up to a 3 hour fire resistance rating.

RECOMMENDED FOR • Blank openings • Metallic pipes • Cable trays • Combustible pipes (cPVC, PVC, RNC) • Insulated pipes • Data Centers

Code	Description	Qty
66362	2" x 9" x 6"	10
66363	3" x 9" x 6"	10

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Ensure services are sufficiently supported as per approved system or local building code.
3. Shake the pillows to make the infill material uniform before installation.
4. Metacaulk Firestop Pillows have been tested to give a choice of two methods:
   - If wire mesh will be used, the pillows must be installed by being compressed a minimum of 20%.
   - If wire mesh will not be used, the pillows must be compressed a minimum of 30%.
5. Push (compressed) pillow into opening so that the longest dimension is projecting through the wall. If installing into floor assembly, then mechanically fix a galvanized wire mesh to the underside of the opening with a Min. overlap of 4in. (100 mm). Always start with the largest pillow (3"x9"x6") to cover the maximum space. Use the smaller size to fill in where required. Install the pillows taking care to compress each to form a tight seal within the penetration.
6. For electrical trunking, remove the lid and install a pillow inside so it aligns wit h the depth of the wall. Replace the lid on the electrical trunking.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound (enclapsilated) with Mimeral wool blend
Color	Red
Size	2" x 9" x 6", 3" x 9" x 6"
Sheet Thickness	
Nominal Weight	
Density (ISO 9427)	
Non Volatile (ISO 3251)	
Ash Content (ISO 3451-1)	N/A
Finger Print (ISO 11358/EN1767)	N/A
Loss of Ignition (ISO 4589-2)	N/A
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	N/A
Insulation Efficiency (EN1363-1)	N/A
Application	Dry
Elastomeric	No
Freeze/Thaw	Excellent
VOC	<10 g/L

Curing Times	
N/A	N/A

Intumescent Properties	
Expansion Begins	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Expansion Pressure TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.391 N/mm² (13.91 Bar)

Storage & Handling

Metacaulk Firestop Pillows should be stored between 0˚F and 150˚F. For easier installation, bring pillows to room temperature before installing. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

Coverage Rates

Estimate the number of bags required, by performing the following calculation.

A) Calculate the size in square inches of the opening to be firestopped.
B) Calculate the area in square inches required by the penetrating items.
C) Subtract (B) from (A) and divide by the coverage shown in the chart below

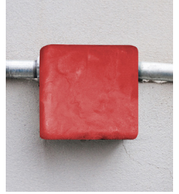
Pillow Size	30% Compression	20% Compression
3" x 9" x 6"	18.90 sq. in.	21.60 sq. in.
2" x 9" x 6"	12.60 sq. in.	14.40 sq. in.

ASTM E84	
Flame Spread	N/A
Smoke Index	N/A

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.



Metacaulk® FRP

Fire-Rated Putty Pads & Sticks

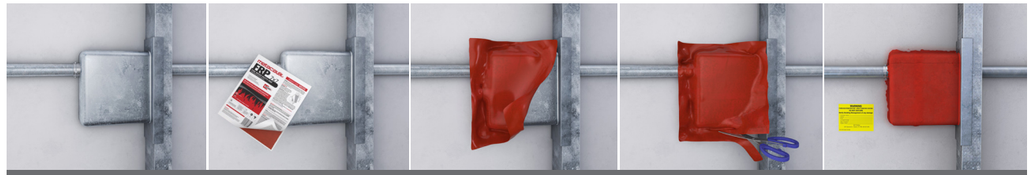
FEATURES

- No Volatile solvents or asbestos fillers
- Excellent acoustic properties
- Mold inhibitor
- Primerless adhesion to most common substrates
- No electrical conductivity
- Tested I.A.W ASTM E84 (UL 723), ASTM E84 (UL 1479), CAN/ULC-S115, S101, S102, ASTM E90, ASTM G21, STC 60
- UL Classified systems up to 3 hr
- Can be used to provide a barrier from vibration and movement

Metacaulk® Fire Rated Putty is a moldable, non-curing, single component, fire resistant material for membrane & through-penetration firestop systems. Metacaulk® Fire Rated Putty will carbonize when heated, forming an insulative char preventing the spread of flames, smoke, gas and water through penetration openings. Metacaulk® Fire Rated Putty is easy to apply by hand. No tools or mixing is required.

RECOMMENDED FOR • Blank openings • Metallic pipes • Single & bunched cables • Cable trays & bus bars • Membrane penetrations • Electrical boxes

Code	Description	Qty
66345	18 in^3 stick	12
66340	6" x 7" x $^1/_8$" Pad	20
66335	7" x 7" x $^1/_8$" Pad	20
66475	9" x 9" x $^1/_8$" Pad	20



Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Penetrating items should be firmly secured.
2. Clean all contact surfaces so they are free from loose debris and contaminants.
3. Install the required backing material as per the detailed instructions or approved system.
4. PUTTY - Apply Metacaulk FR Putty to required parameters as per detailed instruction or approved system making sure that it is in contact with all surfaces to provide maximum adhesion.
5. PUTTY PADS - Remove liner from one side of pad and align with the side of the electrical box partially overlapping the stud and adhere.
6. Work pad to the opposite side of the box and over the edges.
7. If wall membrane is in place, pack putty into gaps between box and gypsum board slightly overlapping inner wallboard surface.
8. If membrane is to be installed after pad installation, overlap front edge of box so that putty will be compressed around edges of box as wallboard is installed.
9. Cut slits in FR Putty pad to fit around electrical cables/conduit and press FR Putty pad firmly to all sides of the electrical box.
10. Trim excess at corners and apply to conduit fittings connected to the box if necessary.
11. Remove exposed liner.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Non-drying synthetic Polymers and Oils
Color	Light Red/Pink
PH Value (ASTM E70-19)	6.9
Specifc Gravity	1.48 $kg.m^3$
Slump (ASTM D816-82 Will not flow up to	250˚F (120˚C)
Approx. expansion on setting	Nil
Non Volatile (ISO 3251)	N/A
Ash Content (ISO 3451-1)	N/A
Finger Print (ISO 11358/EN1767)	N/A
Loss of Ignition (ISO 4589-2)	N/A
Total Heat Release (ISO 5660-1)	N/A
STC Rating (ASTM E90)	60
Application	Hand applied
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L

Curing Times	
None	Approx 45 min. (at 77˚F/25˚C)
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Reaction Properties	
Reaction Begins	220˚F (104˚C)

Coverage Rates
No coverage rate required

ASTM E84	
Flame Spread	10
Smoke Index	125

Storage & Handling

Metacaulk Fire Rated Putty is not to be stored in areas where the temperatures exceed 120˚F or drop below 0˚F. Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products dry and stored under protective cover in their original containers. A stock rotation program is recommended.

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.

Metacaulk® Box Guard™ and Cover Guard™

Fire-rated pad and gasket for electrical boxes

only for Box Guard
Intertek
CONTROL NO. 5007154

FEATURES

- Easy to install
- Cost effective
- Good sound insulator
- Highly intumescent
- Non-conductive
- Dielectric Breakdown Voltage 22V/mil (ASTM D149)
- STC Rating 53
- Complies to UL required Accelerated Aging and High Humidity Testing
- VOC Compliant - CDPH Standard Method v1.2
- Tested in accordance with UL 263/ASTM E119 and ASTM E814 (UL 1479), CAN/ULC S115, S101 and S102

Metacaulk® Box Guard™ and Cover Guard™ are a single component, highly intumescent, graphite-based composition which has been designed for use with electrical boxes.

Metacaulk Box Guard is simply inserted on the inside back wall of a metallic electrical box prior to cable installation and held in place with a pre-installed adhesive tape. If access is restricted, then the Metacaulk Cover Guard can easily be fitted as a gasket between the electrical box and the cover plate. This allows for installation after drywall and wiring are already in place.

Tested in accordance with ASTM E814 (UL1479), ASTM E119 (UL 263) standard to provide up to a 2 hr fire resistance rating.

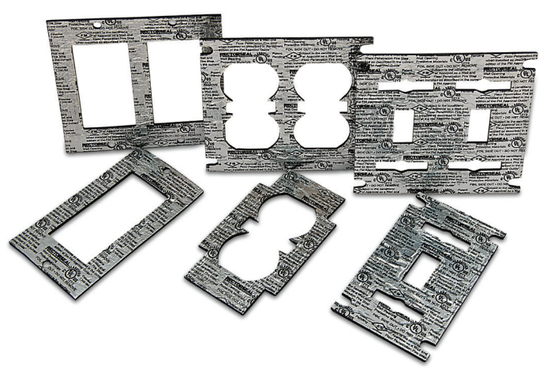
RECOMMENDED FOR • Metallic electrical boxes

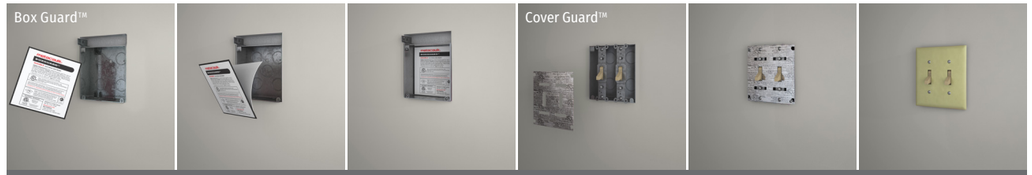
BOX GUARD

Code	Description	Qty
66366	Single box – 1-13⁄16" x 2-13⁄16" x 1⁄4" (47 mm x 71 mm x 6 mm)	50
66367	Double box – 3-3⁄4" x 3-11⁄16" x 1⁄4" (94 mm x 95 mm x 6 mm)	50
66369	4-3⁄8" x 4-3⁄8" x 1⁄4" (111 mm x 111 mm x 6 mm)	50

COVER GUARD

Code	Description	Qty
66270	Double receptacle	50
66272	Single receptacle	50
66274	Double switch	50
66276	Single switch	50
66265	Single decor	50
66266	Double decor	50





Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all contact surfaces so they are free from loose debris and contaminants.
2. Metacaulk® Box Guard™
   A. Remove protective paper from tape and stick pad to inside back wall of electrical box
   B. Center pad from top and bottom of box. Install switch, or outlet.
   C. If necessary, a maximum 3/8" hole may be created or the pad may be slit from one edge to allow easier access to the electrical box ground screw.
3. Metacaulk® Cover Guard™
   A. Place aluminum foil side of Metacaulk Cover Guard against inside of electrical face plate.
   B. Do not remove any material, film or foil from Metacaulk Cover Guard.
   C. Install face plate with Metacaulk Cover Guard over switch or receptacle and secure face plate with screws.

Make sure installation complies with NEC 314.16 or other applicable codes.
Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties

Chemical Base	Graphite based on Synthetic compound
Color	Black
Weight per unit area (EN1849-2)	7737 g/m³
Density (ISO 9427)	1334 kg/m³
Non Volatile (ISO 3251)	98.60%
Ash Content (ISO 3451-1)	42.61%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	82.89%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	17.3 mJ/m²
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Asbestos Fillers	None
Solvents	None
Hazardous Ingredients	None
Application	Dry
Elastomeric	Yes
Freeze/Thaw	Excellent
VOC	<10 g/L
STC Rating (ASTM E90)	53

Storage & Handling

Metacaulk Box Guard & Metacaulk Cover Guard should be stored in a dry environment. A stock rotation program is recommended.

Curing Times

Application Temperature	between 40˚F – 120˚F 4˚C – 49˚C

Intumescent Properties

Expansion	between 375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550˚C For 30 min with top load/HP)	1:20
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300˚C/IHP)	1.330 N/mm² (13.3 Bar)

Volume

Volume specific to electrical box and cover plate requirement.

ASTM E84 (for Box Guard)

Flame Spread	0
Smoke Index	20

Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

Scan QR code for product details.

Composite Sheet

For Large Openings With Or Without Penetrating Items

FEATURES
- Easy to install
- Re-enterable
- Non-magnetic
- VOC compliant - CDPH Standard method v1-2
- Tested I.A.W ASTM E814 (UL 1479)
- UL Classified systems up to 4 hr
- Complies to UL required Accelerated Aging and High Humidity Testing

Metacaulk® Composite Sheet is a rigid fire resistive panel, which is used to restore the fire integrity of floor/ceilings or walls in which large openings have been made to accomadate penetrants. Designed from a reinforced, highly intumescent material which is bonded on one side to a non-magnetic (#304) stainless steel sheet, helps ensure good weather ability and virtually no inductive loss in cables. In addition to sealing penetrations through large openings, Metacaulk Composite Sheet is also used for shielding cable trays, conduit, and vital process equipment from radiant heat, flame spread and smoke. The Metacaulk Composite Sheet functions as an effective intermediate fire-break within horizontal and vertical cable tray runs and is excellent for both new and retrofit construction. When exposed to a fire, the material forms a refractory char that retards heat transmission and tightly seals penetrations against flame spread, smoke and toxic fumes. It is lightweight and can be easily installed with common trade tools. It provides up to a 4 hour fire resistance. In accordance with ASTM E814 (UL1479), ASTM E119 (UL 263), CAN/ULC S115, S101 and S102.

RECOMMENDED FOR • Blank openings • Metallic pipes • Cable trays • Combustible pipes (cPVC, PVC, RNC)

Code	Description	Qty
66320	36" x 36"	1

*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with Flowguard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all joints or openings and penetrating items in the sealing area to remove loose debris, dirt, oil, wax, grease, old caulking, etc.
2. Cut the Metacaulk Composite Sheet to overlap the opening by a min. 2 in. (50 mm) on all sides.
3. Contour around penetrating items, allowing a max annulus of 3/8 in. (10 mm) gap.
4. Apply a layer of either Joint Strip or FR Putty under intumescent sheet around entire perimeter before securing.
5. Secure the composite sheet with min 3/8 in. (10 mm) x 1-1/4 in. (32 mm) steel masonry fasteners and steel fender washers, spaced at 6 in. (150 mm) centers.
6. Install the Composite Sheet with its steel side exposed (facing outward).
7. Apply a 1/2 in. (12 mm) bead of Metacaulk Putty or Metacaulk 1000 at the interface of the penetrating item and Composite Sheet.

Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based on Synthetic compound (enclapsilated)
Color	Silver
Sheet Size	36" X 36"
Sheet Thickness	0.15 ±.05"
Nominal Weight per sheet	4.8 lb (2.17kg)
Density (ISO 9427)	1275 kg/m^3
Non Volatile (ISO 3251)	99.00%
Ash Content (ISO 3451-1)	41.06%
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)
Loss of Ignition (ISO 4589-2)	83.47%
Flexibility (ISO 1519)	Pass
Total Heat Release (ISO 5660-1)	13.1 mJ/m^2
Insulation Efficiency (EN1363-1)	No failure observed at 25 min
Application	Dry
Elastomeric	No
Freeze/Thaw	Excellent
VOC	<10 g/L

Intumescent Properties	
Expansion Begins	375˚F – 1100˚F 190˚C – 593˚C
Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.391 N/mm^2 (13.91 Bar)

ASTM E84	
Flame Spread	N/A
Smoke Index	N/A

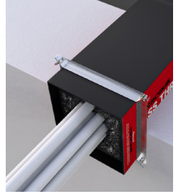
Storage & Handling

Metacaulk Composite Sheet should be stored in a clean, dry place.

Limitations

Metacaulk Composite Sheet is not designed to be used in the areas under continuous immersion or in areas which would be continuously wet. Metacaulk Composite Sheets should not be used against a hot uninsulated surface above 300˚F.

Scan QR code for product details.



Metacaulk® Pass Thru Pro

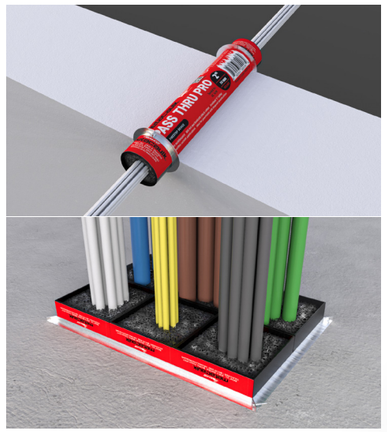
Firestop Pass Through Device

FEATURES

- Easy installation
- Will not mechanically pinch cables
- Excellent “L” rating
- Zero maintenance
- Tested I.A.W ASTM E814 (UL 1479), EN1366-3, BS476-20, and AS1530-4
- UL Classified systems up to 4 hr

Metacaulk® Pass Thru Pro is a firestop device that protects through-penetrations for up to 4 hours while providing flexibility to add, re-add or remove penetrants at any time. Metacaulk® Pass Thru Pro reduces labor time with quick installation and flexibility to modify penetrants as often as needed. Intumescent expands at the exposure of heat, forming a refractory char that tightly seals preventing the spread of flame, smoke and toxic fumes.

RECOMMENDED FOR • Quick and easy re-running of cable and other services • New cable installation • Concrete walls and floors • Gypsum walls



Code	Pass Thru Pro Devices	Qty
PATP-2R	2-inch round device	6
PATP-4R	4-inch round device	6
PATP-4S	4-inch square device	6
Code	**Mounting Flange Sets**	**Qty**
PATP-2R-FK1	Set for 2-in. round device	24
PATP-4R-FK1	Set for 4-in. round device	24
PATP-4S-FK1	Set for 4-in. square device (Single)	24
PATP-4S-FK2	Set for 4-in. square device (Duplex)	24
PATP-4S-FK3	Set for 4-in. square device (Triplex)	24
PATP-4S-FK6	Set for 4-in. square device (Sixplex)	6
Code	**Foam Pieces**	**Qty**
PATP-4R-RFP	Foam for 2-in. round device	12
PATP-2R-RFP	Foam for 4-in. round device	12
PATP-4S-RFP	Foam for 4-in. square device	12

Installation Instructions

New Cabling Installation

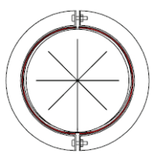
1. Select the size of Pass-Thru Device required.
2. Cut or form a suitable size opening in the floor or wall, ensuring that any annular space between the pass-thru device and the opening is within the limits defined by the tested systems.
3. Slide the pass-thru device into the previously formed opening, making sure that it is positioned centrally within the thickness of the floor or wall, ensuring that an equal length protrudes from either side of the opening.
4. Add a bead of sealant to the surface of the pass-thru device where bracket is to be placed to secure the bracket.
5. Pass-Thru Devices are installed using friction fitted Mounting Brackets. Using the correct size Mounting Bracket, open bracket and fit over each end of the Pass-Thru device (i.e. 1 bracket on each side of wall). Slide each bracket until it is flush with the wall or floor.
6. Fit the supplied fasteners thru the pre-formed holes in the open corner of each bracket and tighten securely in position. Ensure that Mounting Brackets are correctly fitted on BOTH SIDES of wall or floors. Once the mounting brackets are secured in position on the Pass-Thru Devices, they DO NOT need to be separately fixed to the wall or floor.
7. Remove the supplied end plugs and pass the cables through the pass-thru device as required. Install end plugs and re-fit into both ends of Pass-Thru Device around the cables or piping.

Existing Cable Installation

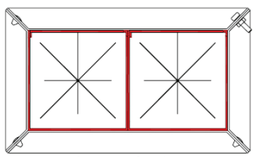
1. Select the correct size of Pass-Thru Device to suit the existing opening. If necessary enlarge the opening to allow for installation, ensuring that any annular space between the Pass-Thru Device and the opening will be within the limits defined by the tested systems.
2. Remove the top of the Pass-Thru Device and the supplied end plugs. Fit the device around the existing cables or pipes and replace the top.
3. Slide the Pass-Thru Device along the pipe or cable into the opening, making sure that it is positioned centrally within the thickness of the floor or wall, ensuring that an equal length protrudes from either side.
4. Pass-Thru Devices are installed using friction fitted Mounting Brackets. Use the correct size Mounting Bracket. Open bracket and fit over each end of the Pass-Thru Device (i.e. 1 bracket on each side of wall). Slide each bracket until it is flush with the wall or floor.
5. Fit the supplied fasteners thru the pre-formed holes in the open corner of each bracket and tighten securely in position. Ensure that Mounting Brackets are correctly fitted on BOTH SIDES of wall or floors. Once the mounting brackets are secured in position on the Pass-Thru Devices, they DO NOT need to be separately fixed to the wall or floor.
6. Install end plugs and re-fit into both ends of Pass-Thru Device around the cables or piping.

Refer to Safety Data Sheet for additional information.

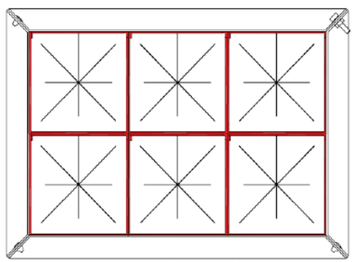
Install Configurations



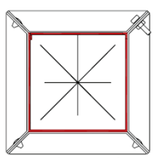
Pass-Thru Device
(PATP-4R, PATP-2R)
with Mounting Flange
(PATP-4R-FK1, PATP-2R-FK1)
Foam Piece
(PATP-2R-RFP, PATP-4R-RFP)



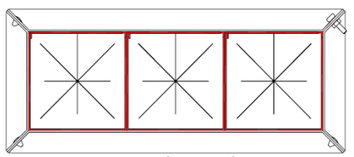
2x Pass-Thru Device (PATP-4S)
with Duplex Mounting Flange
(PATP-4S-FK2)



6x Pass-Thru Device (PATP-4S)
with Sixplex Mounting Flange
(PATP-4S-FK6)



Pass-Thru Device (PATP-4S)
with Mounting Flange (PATP-4S-FK1)
Foam Piece (PATP-4S-RFP)



3x Pass-Thru Device (PATP-4S)
with Triplex Mounting Flange
(PATP-4S-FK3)

Scan QR code for product details.

Metacaulk® Fire Rated Mortar

Fire Rated Mortar For Large Openings

FEATURES

- Non sag
- Freeze-thaw capabilities
- Mold inhibitor
- High yield
- VOC compliant - LEED-NC, CS, CI
- 2 year shelf life
- Tested I.A.W ASTM E814 (UL 1479), CAN/ULC-S115, S101, S102
- UL Classified systems up to 4 hr

Metacaulk® Fire Rated Mortar is a specially formulated rapid hardening gypsum/ cement compound, that provides the optimum combination of workability, strength and fire resistance. When mixed with clean water to the required consistency, the Metacaulk FRM sets without shrinking to form a rigid, gas tight, fire resistant seal. Tested in accordance with ASTM E814 (UL 1479) and ULC-S115-95 standards can provide up to 4 hr fire resistance on a wide range of firestop penetrations where they pass through fire rated walls or floor assemblies. Can easily be cut or drilled and resealed if future penetrants are needed. No special tools are required to mix or install the product. Metacaulk Fire Rated Mortar systems are rated for up to 4 hours.

Metacaulk Fire Rated Mortar is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.

RECOMMENDED FOR • Metallic pipes • Insulated pipes • Insulated air duct • Single & bunched cables • Cable trays & bus bars

Code	Description	Qty
66334	45 lb (20 kg) Bag	1

Installation Instructions

Note: Firestop material must be installed in accordance with detailed instructions or the listed system.

1. Clean all joints or openings and penetrating items in the sealing area to remove loose debris, dirt, oil, wax, grease, old caulking, etc.
2. Mix with clean water in a suitable container. Slowly add the dry mortar mix to water while stirring by hand, or by power mixer, to ensure a smooth lump free mix. (Pourable for Floor Openings = 2-1/2 : 1), (Stiff for Wall Openings = 3 : 1).
3. WALL OPENINGS: For small holes and gaps, trowel a stiff mix into the opening to the desired depth. For larger holes, use an appropriate damming* material to support the mix until it sets.
4. FLOOR OPENINGS: When sealing holes in floor slabs, an appropriate damming material must be installed prior to pouring in the mortar mix. Panels of damming* materials should be cut to fit tightly around penetration within the opening so as to avoid leakage of the mortar mix during pouring.

Refer to Safety Data Sheet and packaging instructions for additional safety information.

Technical Data

Material Properties	
Chemical Base	Gypsum / Cement
Color	Light Red
PH Value (ASTM E70-19)	6.9
Dry Density (ASTM E605 / E605M-19)	880 Kg/m³ (54.9 pcf)
Wet Density (ASTM D1475-13 (2020))	1370 Kg/m³ (85.5 pcf)
Bulk Density (ASTM D7481-18)	665 Kg/m³ (41/5 pcf)
Approx. expansion on setting	0.10%
Non Volatile (ISO 3251)	
Ash Content (ISO 3451-1)	
Finger Print (ISO 11358/EN1767)	
Loss of Ignition (ISO 4589-2)	
Total Heat Release (ISO 5660-1)	
Insulation Efficiency (EN1363-1)	
Application	Trowel or Pour
Freeze/Thaw	Excellent
Fungal Growth Rating (ASTM G21)	Zero
VOC	<10 g/L

Curing Times	
Workable pot life	Approx 45 min. (at 77˚F/25˚C)
Set Hard	3 to 4 hours (at 77˚F/25˚C)
Fully Cured	28 Days
Application Temperature between	40˚F – 120˚F 4˚C – 49˚C

Structural Properties	
Compressive Strength (ASTM E761/761M 92(2015)e1)	41000 kPa
Average Pull out Strength (BS 1881 Part 207:1992) N/mm²	2.12 N/mm² (307 psi)
Crushing Strength WET	5 N/mm² (700 psi)

Coverage Rates	
45 lb Bag	2:1 mix ratio 1500 in³
45 lb Bag	3:1 mix ratio 1350 in³

ASTM E84	
Flame Spread	N/A
Smoke Index	N/A

Storage & Handling

Metacaulk FRM should be stored between 35˚F (2˚C) and 120˚F (49˚C) to obtain a 2 year shelf life.

Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products stored under protective cover in original containers.

Limitations

Metacaulk FRM is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk FRM should not be used on hot uninsulated surfaces above 200˚F (93˚C).

*Damming materials can be made from various materials, e.g. insulation, hard foam, wood, backer rod, etc.- either combustible or noncombustible. Combustible damming material is usually removed after the mortar mix has set. Non-combustible damming materials can be left in place. However, the specifier or the local authority having jurisdiction may require a specific type of or the removal of a particular damming material. If damming material is to be removed, a suitable bond breaker (e.g. plastic sheeting) should be used between the mortar mix and the damming material.

Scan QR code for product details.

EXPANDING POLYURETHANE FOAM

Draft-Block™ Orange

Expanding polyurethane foam for utility penetrations

FEATURES

- Identifiable orange color
- Expands 3X
- Tack-free in approx. 45 min.
- No urea or formaldehyde
- Completely dielectric
- UL Evaluation Report ER40378-01
- Meets ASTM E84
- Meets ASTM E814 (Modified)

3YR WARRANTY

APPLICATION • Draft-Block Orange has a recognized orange color allowing inspectors to identify the use of an approved fireblock product for Type V residential construction. • Blocks flames and smoke in concealed penetrations, preventing flame spread from room to room and floor to floor, with the foam's expansion characteristics.

RECOMMENDED FOR • Type V residential construction • Excellent filler which bonds and insulates • Filling voids, cracks, crevices and small cavities on flat or irregular surfaces • Reducing sound transmission

Code	Description	Qty
96495	12 oz. aerosol	12

METACAULK FIRESTOP SEALANT

Metacaulk® RS 136

Fire Block / Smoke Seal Caulk

FEATURES

- No volatile solvents
- Does not have asbestos fillers
- Easy installation
- Water cleanup
- Excellent freeze-thaw
- 2-year shelf life
- Meets ASTM E136

3YR WARRANTY

APPLICATION Metacaulk RS 136 is a general purpose caulk for electrical, plumbing, plastic pipe and telecomm systems penetrations. It is also an excellent fire rated acoustical sealant, and can be used around electrical outlets and non-vibrating construction joints. RS 136 is an incombustible fire-block, smoke-seal, acoustic-block and draft-stop caulk that beds and seals small voids, splices and gaps. It installs easily with a conventional caulking gun, and cleans up with water.

RECOMMENDED FOR • Electrical, plumbing, plastic pipe and telecomm systems penetrations • Non-vibrating construction joints

Code	Description	Qty
66408	10.3 oz. tube	12

FIRESTOP ACCESSORIES

Draft-Block™

General purpose expanding polyurethane foam

Code	Description	Qty
96500	12 oz. aerosol	12

FEATURES

- Expands 3X
- Tack-free in approx. 45 min.
- No urea or formaldehyde

APPLICATION • Excellent filler which bonds and insulates • Fill voids, cracks, crevices and small cavities on flat or irregular surfaces • Reduces sound transmission • Completely dielectric

3YR WARRANTY

Caulking Guns

Cartridge & sausage

Code	Description	Qty
66114	10.3 oz. gun	1
66115	30 oz. gun	1
66116	20.2 oz. Foil Pack (Sausage) gun	1
66117	Replacement tips	25

FEATURES

- Industrial grade

3YR WARRANTY

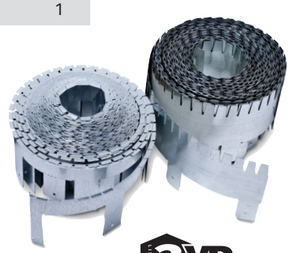
Universal Collar

For concrete, wood & gypsum

Code	Description	Qty
66091	2" x 50' roll	1
66095	1" x 50' roll	1

FEATURES

- Galvanised steel



3YR WARRANTY

Custom sizes available with Universal Collars and Wrap Strips
See pg. 24

Foam Backer Rod

Fills gaps prior to sealing

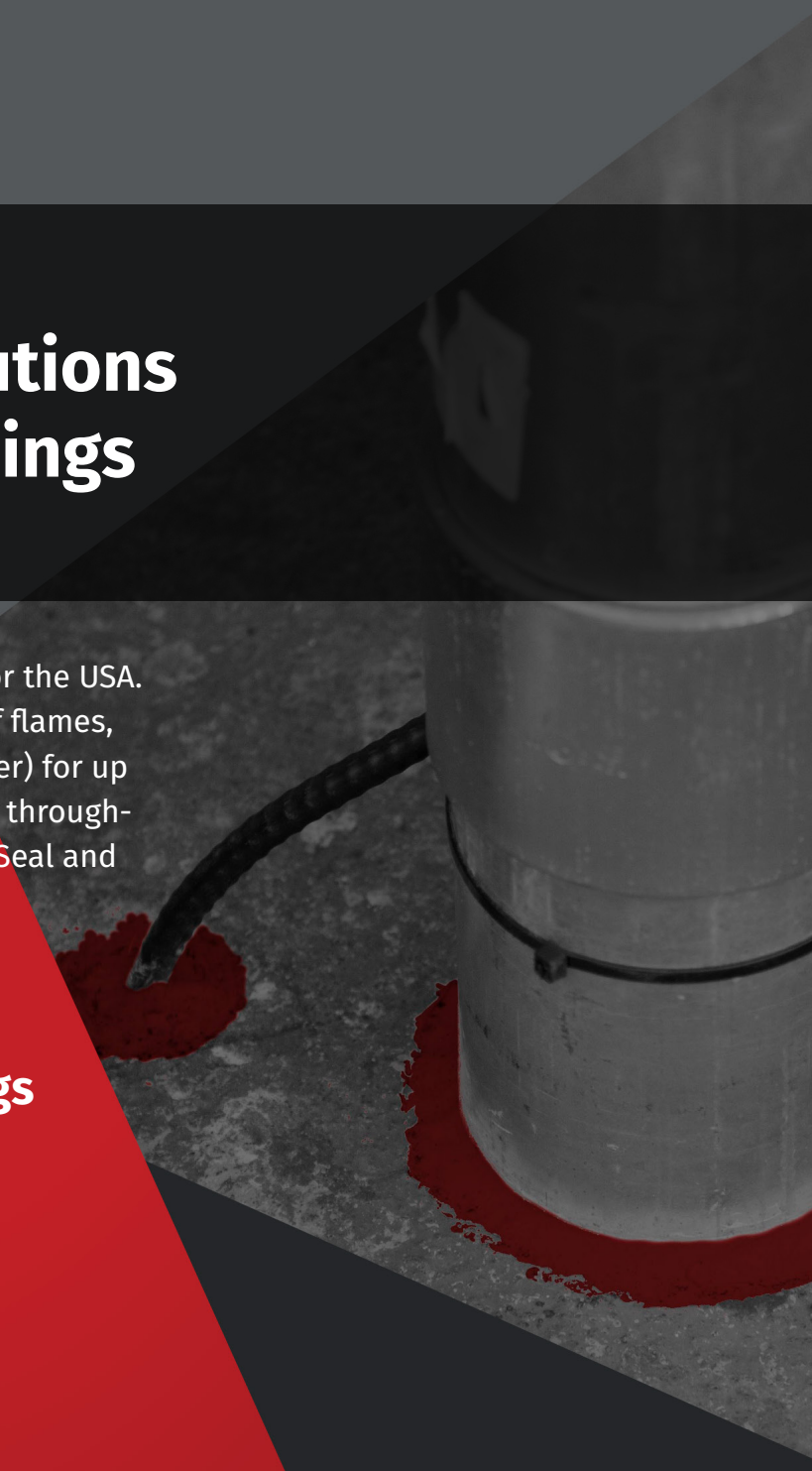
Code	Description	Qty
66112	1" x 75'	1

FEATURES

- Easy-to-use

3YR WARRANTY

Trusted Firestop Solutions for Commercial Buildings



Balco presents Metacaulk® firestop solutions for the USA. These advanced products prevent the spread of flames, smoke, hot gasses, heat (even water and weather) for up to 4 hours for fire-rated construction joints and through-penetrations. They are manufactured by RectorSeal and designed to comply with building codes.

Find your UL and Intertek listings

For systems in wood, concrete, block, gypsum, and curtain wall

Find your solution:

BALCO
A CSW Industrials Company

Balco® Inc. Wichita, Kansas 67219 balcousa.com

Manufactured by

RECTORSEAL