

We draw the line at fire and smoke penetration.

metacaulk.com

Leading the industry in quality, warranty and support.



metacaulk_®

FIRESTOP SOLUTIONS

We draw the line at

fire and smoke penetration.



• Advanced Firestop Solutions

Complete Firestop Product offering

RectorSeal, a global leader in the life safety and passive fire protection industry.

0



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 Proiec

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.



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







Advanced testing

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



development of new products and UL systems and provides the flexibility to quickly respond to customer needs.



RS Academy

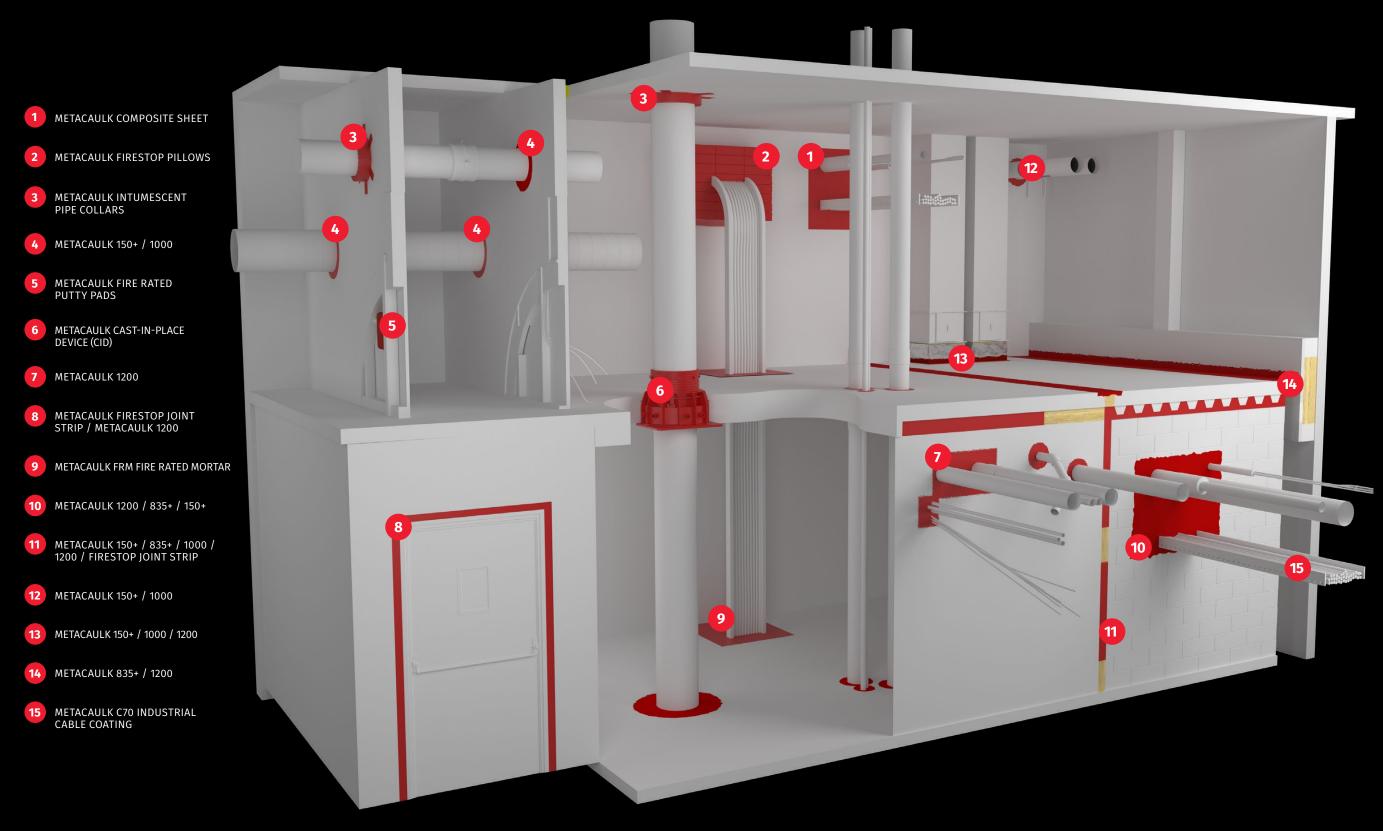
Self-directed e-learning courses for the firestop trades. Access free and unlimited expert-led courses anytime on your own schedule and desired platform. Additionally, you will receive customized course recommendations and a certificate of completion for each finished course.

Our course catalog will be updated with new and improved courses frequently. Sign-up today! rectorseal.com/academy.



Metacauk[®] 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.



PERFORMANCE

All products undergo rigorous testing and certification by independent third-party agencies, such as UL and FM, ensuring they meet or exceed industry standards for fire resistance and smoke control.



Metacaulk systems offer a holistic approach to firestop applications, however, where field conditions differ, Metacaulk can support with structured engineered solutions.



Metacaulk products & systems offer major advantages for the installer with economical and reliable solutions.



Meeting and Exceeding Firestop Standards with Confidence

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

RectorSeal is 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 Airbome Sound Tranmission 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

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



6











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.

Contact: RectorSeal[®] P 713-263-8001 800-231-3345





Metacaulk[®] 150+

FEATURES

• Flexible cure

Mold inhibitor

Method v1.2

• STC rating 65

Non sag

General Purpose Firestop Sealant

Metacaulk 150+ is a single component, general 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 • Construction joints • Air ducts • Single & bunched cables • Bus bars



*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.



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.
- 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		Curing Times	
Chemical Base	Water Based Acrylic	Skin Over Time	30 min. (at 77°F/25°C)
Colour	Red	Cure Time	3 to 4 weeks
PH Value	7 to 8		(at 77°F/25°C)
Viscosity	300000 cp	Application Temperature between	40°F – 120°F 4°C – 49°C
Density (ISO 9427)	1.5 g/cc	Properties	
Non Volatile (CDPH) Standard Method v1.2	Between 0.5 and 5.0 mg/m³	Reaction Between	375°F – 1100°F 190°C – 593°C
Ash Content (ISO 3451-1)	40%	Volume	
Finger Print (ISO 11358/EN1767)	N/A	10.3 oz Tube	18 cu. in. (304 ml)
Loss of Ignition (ISO 4589-2)	N/A	20 oz Sausage Pack	36 cu. in. (597 ml)
Flexibility (ISO 1519)	Pass	30 oz Tubes	54 cu. in. (887 ml)
Coverage Rate	1/4 in. (6 mm) bead 62 Linear feet (18.9 lm)	5 gal/19 L Pail	1,155 cu. in. (18.9 liter)
STC Rating (ASTM E90)	65	ASTM E84	
Application	Caulking Gun/Trowel	Flame Spread	10
Elastomeric	Yes	Smoke Index	10
Freeze/Thaw	Excellent	Limitations	
Fungal Growth Rating (ASTM G21)	Zero	Metacaulk 150+ is not designed to be us continuous immersion or in areas whicl	
VOC	<10 g/L	wet. Metacaulk 150+ should not be used	,
Storage & Handling		surfaces above 300°F (149°C).	

Metacaulk 150+ should be stored between $35^{\circ}F(2^{\circ}C)$ and $120^{\circ}F$ (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.



FBC

• 3 year shelf life • Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E1399, CAN/ULC-S115, ASTM G21, ASTM E84 (UL 723), ASTM E90

• VOC compliant - CDPH Standard

• Freeze-thaw capabilities

• UL Classified systems up to 4 hr

• Colour: Red (Grey colour option available upon request)

Description	Qty
10.3 oz (310 ml) Cartridge	12
20.2 oz (600 ml) Sausage pack	12
30 oz (900 ml) Cartridge	12
5 gal (19 L) Pail	1
	10.3 oz (310 ml) Cartridge 20.2 oz (600 ml) Sausage pack 30 oz (900 ml) Cartridge

3. Apply Metacaulk 150+ to required parameters as per detailed instruction or approved system making sure that it is in contact





Metacaulk[®] 1000

Highly Intumescent Firestop Sealant

FEATURES

- Highly intumescent
- Non sag

FBC

60

CERTIFIED

- 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, ASTM E84 (UL723), ASTM E90, ASTM G21
- UL Classified systems up to 4 hr
- Complies to UL required Accelerated Aging and High Humidity Testing • Colour: Red

Code	Description	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

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



*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.



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.
- 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		Curing Times		
Chemical Base	Water Based Acrylic	Skin Over Time	30 min. (at 77°F/25°C)	
Colour	Red	Cure Time	3 to 4 weeks	
PH Value	6.5 to 7		(at 77°F/25°C)	
Viscosity	176000 cp	Application Temperature between	40°F – 120°F 4°C – 49°C	
Density (ISO 9427)	1.36 g/cc	Intumescent Properties		
Non Volatile (ISO 3251)	79.20%	Expansion Between	375°F – 1100°F	
Ash Content (ISO 3451-1)	40.57%		190°C – 593°C	
Finger Print (ISO 11358/EN1767)	Cellulose Triacetate	Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min	1:18	
Loss of Ignition (ISO 4589-2)	66.84%	with top load/HP)		
Flexibility (ISO 1519)	Pass	Expansion Pressure (TR024 clause 3.1.12 method 4 at 300°C/IHP)	1.215 N/mm² (12.15 Bar)	
Total Heat Release (ISO 5660-1)	19.5 mJ/m ²	Volume		
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	10.3 oz Tube	18 cu. in. (304 ml)	
Application	Caulking Gun/Trowel	20 oz Sausage Pack	36 cu. in. (597 ml)	
Elastomeric	Yes	30 oz Tubes	54 cu. in. (887 ml)	
Freeze/Thaw	Excellent	5 gal/19 L Pail	1,155 cu. in. (18.9 liter)	
Fungal Growth Rating (ASTM G21)	Zero	ASTM E84		
VOC	<10 g/L	Flame Spread	0	
Storage & Handling		Smoke Index	0	
Metacaulk 1000 should be stored betw	een 35°F (2°C) and 120°F	Limitations		

etacaulk 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.

Contact: RectorSeal® P 713-263-8001 800-231-3345 **•** 713-263-7577 800-441-0051 W rectorseal.com

3. Apply Metacaulk 1000 to required parameters as per detailed instructions or listed system making sure that it is in contact

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).





Metacaulk[®] 1200

FEATURES

• Flexible cure

• Mold inhibitor

Method v1.2

• STC rating 65

Non sag

Spray & Caulk Firestop Mastic

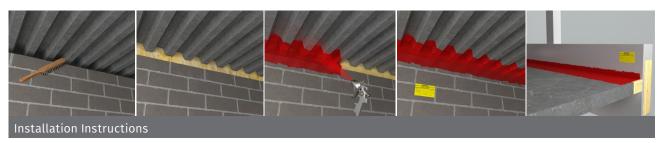
Metacaulk 1200 is a single component water based, firestop sealant which has been formulated for both caulk and spray grade applications. Designed for a variety of service penetration, construction and perimeter joint applications in both vertical and horizontal construction assemblies. Tested in accordance with ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307 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



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.



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		Curing Times	
Chemical Base	Water Based Acrylic	Skin Over Time	30–45 min. (at 77°F/25°C)
Colour	Red & White	Cure Time	3 to 4 weeks (at 77°F/25°C)
PH Value	7 to 9		
Viscosity	Spray: 85,000 cp Caulk: 300,000 cp	Application Temperature between	40°F – 120°F 4°C – 49°C
Density (ISO 9427)	Spray: 1.25 g/cc Caulk: 1.35 g/cc	Properties Reaction Between	375°F – 1100°F
Non Volatile (CDPH) Standard Method v1.2	Between 0.5 and 5.0 mg/m³	Volume	190°C – 593°C
Ash Content (ISO 3451-1)	Spray: >32% Caulk: >38%	20 oz Sausage Pack	36 cu. in. (597 ml)
Finger Print (ISO 11358/EN1767)	N/A	30 oz Tubes	54 cu. in. (887 ml)
Loss of Ignition (ISO 4589-2)	N/A	5 gal/19 L Pail	1,155 cu. in. (18.9 liter)
Flexibility (ISO 1519)	Pass	ASTM E84	
Coverage Rate	1/4 in. (6 mm) bead	Flame Spread	0
STC Rating (ASTM E90)	62 Linear feet (18.9 lm)	Smoke Index	0
-	65	Limitations	
Application	Caulking Gun/Trowel	Metacaulk 1200 is not designed to be	
Elastomeric (IAW ASTM C719)	Up to 50%	continuous immersion or in areas wh wet. Metacaulk 1200 should not be us	
Freeze/Thaw	Excellent	surfaces above 200°F (93°C).	
Fungal Growth Rating (ASTM G21)	Zero		
VOC	<10 g/L		
Storage & Handling			

Metacaulk 1200 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.



c UL us

FBC

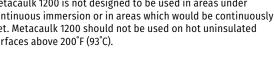
• 3 year shelf life • Tested I.A.W ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307, CAN/ULC-S115,

• Freeze-thaw capabilities

• VOC compliant - CDPH Standard

- ASTM E84 (UL723), ASTM E90, ASTM G21, ASTM C719 • UL Classified systems up to 4 hr
- Colour: Red & White

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







350i INTUMESCENT FIRESTOP SEALANT

Metacaulk[®] 350i

Highly Intumescent Firestop Sealant

FEATURES

- Flexible
- Excellent freeze-thaw • For interior use - paintable
- STC rating 53
- Tested in accordance with ASTM E814 (UL 1479) & ASTM
- E1966 (UL 2079) • 3 year shelf life
 - Complies to UL required Accelerated Aging and High
 - Humidity Testing • Colour: Red

Metacaulk 350i is a single component, water based intumescent sealant which is design 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 3 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.

RECOMMENDED FOR • Metal pipes • Insulated pipes • Fiberglass & plastic pipes • Wall construction joints • Power & telephone cables



*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.



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.
- 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		Curing Times
Chemical Base	Water Based Acrylic	Skin Over Time 30 min. (at 77°F/25°C)
Colour	Dark Red	Cure Time 3 to 4 weeks
PH Value	6.5 to 7	(at 77°F/25°C)
Viscosity	300000 cp	Application Temperature between 40°F – 120°F 4°C – 49°C
Density (ISO 9427)	1.32 kg/l	Properties
NonVolatile (CDPH) Standard Method v1.2	Between 0.5 and 5.0 mg/m³	Reaction Between 375°F – 1100°F 190°C – 593°C
Ash Content (ISO 3451-1)	40%	Reaction Ratio TBC
Finger Print (ISO 11358/EN1767)	N/A	(DIN 4102-1 with 100g (3.5oz) top load IHP)
Loss of Ignition (ISO 4589-2)	N/A	Volume
Flexibility (ISO 1519)	Pass	10.3 oz Tube 18 cu. in. (304 ml)
Coverage Rate1/4 in. (6 mm) bead 62	Linear feet (18.9 lm)	20 oz Foil Pack (Sausage) 36 cu. in. (597 ml)
STC Rating (ASTM E90)	53	30 oz Tubes 54 cu. in. (887 ml)
Application	Caulking Gun/Trowel	5 gal/19 L Pail 1,155 cu. in. (18.9 liter)
Elastomeric	Yes	Limitations
Freeze/Thaw	Excellent	Metacaulk 350i should be stored between 35°F (2°C) and 120°F
VOC	<10 g/L	(49°C) to obtain a 3 year shelf life.
Storage & Handling		

Metacaulk 350i should be stored between 35°F (2°C) and 120°F (49°C) to obtain a 3 year shelf life.

NOTE: 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.



Code Description

66613 5 gal (19 L)

10.3 oz. (310 ml) Cartridge

66611 20.2 oz. (660 ml) Sausage pack

12

12

1

66616

FBC

3. Apply Metacaulk 350i to required parameters as per detailed instruction or listed system making sure that it is in contact with





Metacaulk[®] 835+

Elastomeric, Silicone Firestop Sealant



FBC

- Flexible cure
- Non sag
- 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
- Colour: Grey

Code Description

66645 66300

66301

66019

10.15 oz (310 ml) Cartridge

- Self-Leveling Grade

5 gal (19 L) Pail

66295 5 gal (19 L) Spray

20.2 oz (600 ml) Sausage pack

20.2 oz (600 ml) Sausage pack

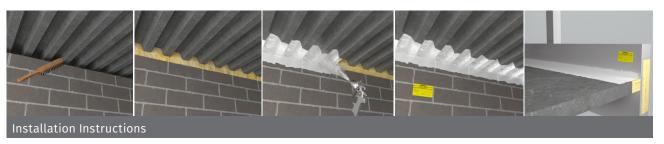
Metacaulk 835+ is a single component, low modulus, non-slumping silicone firestop sealant designed for a variety of service penetration, construction and perimeter joint applications in both vertical and horizontal construction assemblies. Tested in accordance with ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E2307, ASTM E84 (UL723) 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



*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.



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		Curing Times	
Chemical Base	Silicone Base,	Skin Over Time	10–40 min. (at 77°F/25°C)
Colours	Neutral moisture cure	Cure Time	21 days (at 77°F/25°C)
Colour	Grey	Application Temperature between	-20°F – 120°F
STC Rating (ASTM E90)	55		-29°C – 499°C
Viscosity	40,000 cp	Properties	
Specific Gravity	1.33 g/cm ³	Service Temp. Range (ASTM C1299)	-60°F – 300°F
Non Volatile (CDPH)	0.22 mg/m ³		-51°C – 149°C
Standard Method v1.2		Expansion Ratio	N/A
100% Modulus (ASTM D423)	0.310 MPa (45 psi)	(TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	
Dielectric Strength (ASTM D149)	19.0 kV/mm (479 V/mil)	Expansion Pressure	N/A
LC50 - UPITT Combustion Toxicity	33 grams	(TR ⁰ 24 clause 3.1.12 method 4 at 300°C/IHP)	
Joint Movement (ASTM C920)	25+/-	Volume	
Hardness Shore A (ASTM C661)	35	20 oz Sausage Pack	36 cu. in. (597 ml)
Elongation (ASTM D412 DieC)	600%	30 oz Tubes	54 cu. in. (887 ml)
Tear Strength (ASTM D624)	6.13 kN/m (35 PPI)	5 gal/19 L Pail	1,155 cu. in. (18.9 liter)
Application	Caulking Gun/Trowel	ASTM E84	
Elastomeric	Yes	Flame Spread	3
Freeze/Thaw	Excellent	Smoke Index	22
Storage & Handling		Limitations	
Metacaulk 835+ should not be stored	where the temperatures	Do not use Metacaulk 835+ in computer	rooms without first

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.

12

12

12

1

1

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





METACAULK SMOKE AND ACOUSTIC SEALANT

Metacaulk[®] SAS

General Purpose Firestop Sealant



CERTIFIED

• Meets LEED requirements for low emitting materials for adhesives and sealants

- Excellent for large openings
- Impedes sound transfer
- Water clean up

FEATURES

- Easy to dispense • Use both vertically or
- horizontally Interior application
- STC rating 69
- 2 year shelf life
- Colour: 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. 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



*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.



- 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			
Material Properties		Curing Times	
Chemical Base	Water Based Acrylic	Skin Over Time	30 min. (at 77°F/25°C)
Colour	White	Cure Time	3 to 4 weeks (at 77°F/25°C)
PH Value	6.5 to 8	Application Temperature between	40°F – 120°F
Viscosity		Volume	4°C – 49°C
Density (ISO 9427)	Density Caulk 11.1 lbs./gal	10.3oz Tube	18 cu. in. (304 ml)
	1.33 kg/L - Spray 10.9 lbs/gal 1.31 kg/L	20 oz Sausage Pack	36 cu. in. (597 ml)
Non Volatile (ISO 3251)	TVOC 44.6 (µg m–3) per CDPH	30 oz Tubes	54 cu. in. (887 ml)
	Standard Method V1.2, CA Section 01350. Test Results	5 gal/19 L Pail	1,155 cu. in. (18.9 liter)
	Pass Private Office (PO) & School Classroom (SC)	ASTM E84	,,
Ash Content (ISO 3451-1)		Flame Spread	0
Finger Print (ISO 11358/EN1767)		Smoke Index	5
Loss of Ignition (ISO 4589-2)		Limitations	
Flexibility (ISO 1519)	Pass	Metacaulk Smoke and Acoustic Seala	
Total Heat Release (ISO 5660-1)	Pass	used in fire rated assemblies, conditi water or continuously wet. Metacaul	
Insulation Efficiency (EN1363-1)		application temperature range is 40°I installed on un-insulated surfaces th	to 120°F and should not be
Application	Caulking Gun/Trowel		at exceed 120 F degrees
Elastomeric	Yes		
Freeze/Thaw	Excellent		
Fungal Growth Rating (ASTM G21)	Zero		
VOC	<10 g/L		
Storage & Handling			

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.

Code	Description	Qty
66650	5 gal (18.9 L)	1
66652	20.2 oz (600 ml) Sausage pack	12





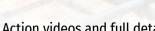


CAST-IN-PLACE DEVICE

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

Intumescent service supply





Action videos and full details @ rectorseal.com/cid

Cast-In-Place Device

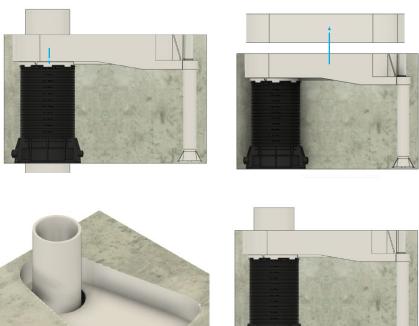


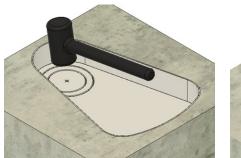
FEATURES

- 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.

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







Firestop CID accessory for tub drains

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





CAST-IN-PLACE DEVICE

Cast-In-Place Device



FEATURES

- Integral intumescent firestop
- UL CLASSIFIED systems up to 4 hr
- FBC

E

CERTIFIED EAN AIR GOLI

- · Eliminates drilling of concrete Reduces labor time · Tested in accordance with
- ASTM E814 (UL 1479). CAN/ULC-S115
- 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 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



*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



nstallation Instructions

- 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.

Tachnical Data

Technical Data		
Material Properties		Curing Times
Chemical Base	Graphite based on Synthetic compound	Application Temperature between 40°F – 120°F 4°C – 49°C
Colour	Black	Intumescent Properties
Weight per unit area (EN1849-2)	7737 g/m ³	Expansion Between 375°F – 1100°F
Density (ISO 9427)	1334 kg/m ³	190°C – 593°C
Non Volatile (ISO 3251)	98.60%	Expansion Ratio 1:20 (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)
Ash Content (ISO 3451-1)	42.61%	Expansion Pressure 1.330 N/mm ² (13.3 Bar)
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)	(TR024 clause 3.1.12 method 4 at 300°C/IHP) Coverage Rates
Loss of Ignition (ISO 4589-2)	82.89%	No measurement of material required
Flexibility (ISO 1519)	Pass	Limitations
Total Heat Release (ISO 5660-1)	17.3 mJ/m ²	To be used only in the tested configurations or as recommended by RectorSeal.
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.

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

1. Select Metacaulk CID to fit the diameter of penetrant being used, assuring annular space is within limits set by the detailed





WRAP STRIP

Wrap Strip

Flexible Intumescent Strip for Combustible Service

FBC

F M APPROVED

CERTIFIED

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 • 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

*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.



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

Teennear bata		
Material Properties		Curing Times
Chemical Base	Graphite based on Synthetic compound	Application Temperature between40°F – 120°F4°C – 49°C
Colour	Black	Intumescent Properties
Weight per unit area (EN1849-2)	7737 g/m³	Expansion Between 375°F – 1100°F
Density (ISO 9427)	1334 kg/m³	190°C – 593°C
Non Volatile (ISO 3251)	98.60%	Expansion Ratio 1:20 (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)
Ash Content (ISO 3451-1)	42.61%	Expansion Pressure 1.330 N/mm ² (13.3 Bar)
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)	(TR024 clause 3.1.12 method 4 at 300°C/IHP) Coverage Rates
Loss of Ignition (ISO 4589-2)	82.89%	Calculate the circumference of the penetrant, for pipes/ circular (2πr) or for square/rectangle (L x W)
Flexibility (ISO 1519)	Pass	Example:
Total Heat Release (ISO 5660-1)	17.3 mJ/m ²	For 4in (100 mm) pipe - 2 x π x 4in (100 mm) = 629.4 mm
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	Length of wrap strip: L = 18ft or 5.5M (5486.4 mm)
Application	Dry	L = 36ft or 10.9M (10,972.8 mm)
Elastomeric	Yes	Therefore C divided by L = No. of applications. Note: Multiple layers of wrap strip will change the circumference on
Freeze/Thaw	Excellent	consecutive layers.
VOC	<10 g/L	ASTM E84
Storage & Handling		Flame Spread 0
Metacaulk Wrap Strip should be stored		Smoke Index 20
Keep products 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.
		6 2206







JOINT STRIP

Joint Strip

c Wus

60

CERTIFIED

FBC

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 • 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 & bunched cables • Cable trays • Construction joints



Description Qtv 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 3" X 82 ft (75 mm X 2 5m) 2 66703 2" X 82 ft (50 mm X 25 m) 3 66704 2 66705 4" X 82 ft (100 mm X 25 m)

*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.



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.

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.

7. Clean all equipment immediately with water after use.

Refer to Safety Data Sheet for additional information.

Technical Data			
Material Properties		Curing Times	
Chemical Base	Graphite based on Synthetic compound	Application Temperature between40°F - 120°F4°C - 49°C	
Colour	Black	Intumescent Properties	
Weight per unit area (EN1849-2)	1820 g/m³	Expansion Between 375°F – 1100°F	
Density (ISO 9427)	1275 kg/m ³	190°C – 593°C	
Non Volatile (ISO 3251)	99.00%	Expansion Ratio 1:25 (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	
Ash Content (ISO 3451-1)	41.06%	Expansion Pressure 1.391 N/mm ² (13.91 Bar)	
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl	(TR024 clause 3.1.12 method 4 at 300°C/IHP)	
	acetate)	Coverage Rates	
Loss of Ignition (ISO 4589-2)	83.47%	Calculate the circumference of the penetrant, for pipes/ circular ($2\pi r$) or for square/rectangle (L x W)	
Flexibility (ISO 1519)	Pass	Example:	
Total Heat Release (ISO 5660-1)	13.1 mJ/m ²	For 4in (100 mm) pipe - 2 x π x 4in (100 mm) = 629.4 mm	
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	Length of joint strip: L = 82ft (25M)	
Application	Dry	Therefore C divided by L = No. of applications.	
Elastomeric	Yes	Note: Multiple layers of wrap strip will change the circumference on consecutive layers.	
Freeze/Thaw	Excellent	ASTM E84	
VOC	<10 g/L	Flame Spread 0	
Storage & Handling		Smoke Index 20	
Metacaulk Joint Strip should be stored in a cool, dry place.		Limitations	
Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.		To be used only in the tested configurations or as recommended by RectorSeal.	

- 3. JOINTS Friction fit Metacaulk Joint Strip longitudinal into joint, using backer rod as the transport mechanism.
- 6. Apply the recommended sealant in the opening / annulus over the joint strip as directed in the detail design or listed system.





FBC

CERTIFIED

c Intertek

FIRESTOP COLLARS

Metacaulk[®] Firestop Collars

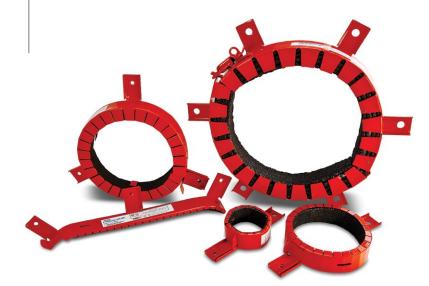
FEATURES

- 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
- UL Classified systems up to 3 hr
- Complies to UL required Accelerated
- Aging and High Humidity Testing • FBC System Compatible

Prefabricated System

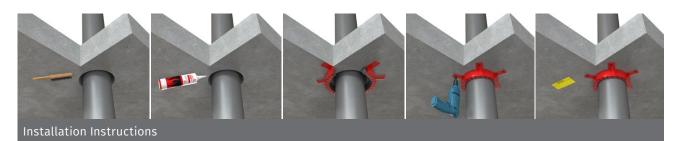
Metacaulk Firestop Collars are a prefabricated, powder coated, galvanised steel housing which contains a highly reactive graphitebased intumescent material. The easy locking tab ensures quick and efficient installation on a wide range of combustible pipe materials, single or bunched cables and insulated 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) • 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.



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		Curing Times
Chemical Base	Graphite based on Synthetic compound	Application Temperature between40°F - 120°F4°C - 49°C
Colour	Black	Intumescent Properties
Weight per unit area (EN1849-2)	7737 g/m³	Expansion Between 375°F – 1100°F
Density (ISO 9427)	1334 kg/m³	190°C – 593°C
Non Volatile (ISO 3251)	98.60%	Expansion Ratio 1:20 (TR024 clause 31.11 Method 1 at 550°C For 30min with top load/HP)
Ash Content (ISO 3451-1)	42.61%	Expansion Pressure 1.330 N/mm ² (13.3 Bar)
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate	(TR024 clause 3.1.12 method 4 at 300°C/IHP)
	(copolymer 40% vincyl acetate)	Coverage Rates
Loss of Ignition (ISO 4589-2)	82.89%	No measurement of material required
Flexibility (ISO 1519)	Pass	ASTM E84
Total Heat Release (ISO 5660-1)	17.3 mJ/m²	Flame Spread 0
Insulation Efficiency (EN1363-1)	No failure observed at	Smoke Index 20
	25 min	Limitations
Application	Dry	To be used only in the tested configurations or as recommended
Elastomeric	Yes	by RectorSeal.
Freeze/Thaw	Excellent	
VOC	<10 g/L	
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.





INTUMESCENT SLEEVES

Metacaulk[®] Intumescent Sleeves

FEATURES • Economical

• No steel bolts or fasteners

Retrofit

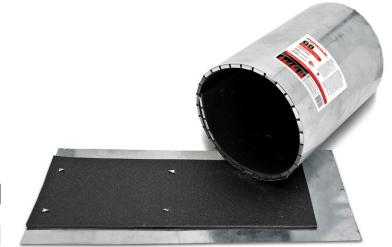
CERTIFIED

- Open & closed pipe systems • Tested I.A.W ASTM E814 (UL 1479),
- CAN/ULC-S115 • UL Classified systems up to 3 hr
- Complies to UL required Accelerated Aging and High Humidity Testing

Flrestop Device

Metacaulk Intumescent Sleeves are a prefabricated, galvanised 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 slide into position through the fire rated assembly, 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 (EPDM, glass wool)



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



stallation 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.

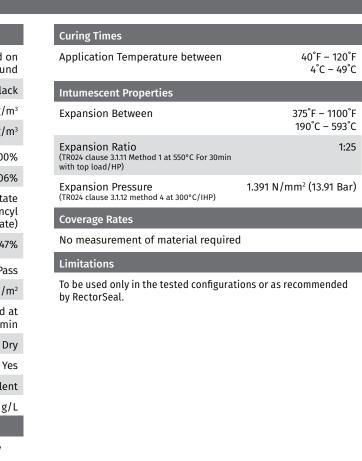
Refer to Safety Data Sheet for additional information.

Technical Data

Material Properties	
Chemical Base	Graphite based Synthetic compou
Colour	Bla
Weight per unit area (EN1849-2)	1820 g/
Density (ISO 9427)	1275 kg/1
Non Volatile (ISO 3251)	99.00
Ash Content (ISO 3451-1)	41.06
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Aceta (copolymer 40% vinc acetat
Loss of Ignition (ISO 4589-2)	83.47
Flexibility (ISO 1519)	Ра
Total Heat Release (ISO 5660-1)	13.1 mJ/
Insulation Efficiency (EN1363-1)	No failure observed 25 m
Application	D
Elastomeric	Y
Freeze/Thaw	Excelle
VOC	<10 g
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.

Contact: RectorSeal® P 713-263-8001 800-231-3345 **F** 713-263-7577 800-441-0051







BLAZESEAL

BlazeSeal[™]

ښ

FM 60

Intertek CONTROL NO. 5007154

- 1479), ASTM E1966 (UL2079), NFPA 252, UL10c, & CANS 4S104 CERTIFIED • UL Classified systems
 - Complies to UL required accelerated aging and high humidity testing

FEATURES

method v1.2

Flexible

• Highly intumescent

• Freeze-thaw capabilities

• Tested I.A.W ASTM E814 (UL

• VOC compliant - CDPH standard

Universal Flexible Intumescent Material

Metacaulk BlazeSeal[™] is a highly intumescent graphite-based composition, on an elastomeric synthetic compound which is available in 1/16 in. (1. 5mm) or 5/64in. (2 mm) thicknesses.



Designed primarily to maintain positive pressure in a wide range of fire rated door and door frame assemblies, when tested in accordance with NFPA 252, UL10C & CANS4-S104.

It can provide adequate sealing for Category G Edge Sealing Systems, Category B wood and plastic covered composite doors rated up to 1–1/2 hr and Category B wood core doors rated 20 minute fire tested without hose stream.

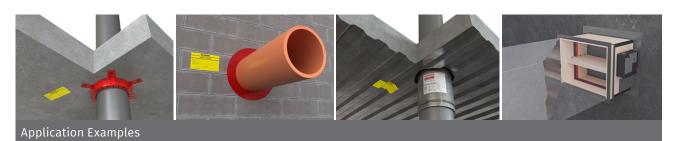
It is also suitable as Category J Gaskets for use with Listed steel frames and/ or Classified steel covered composite, hollow metal doors rated up to 3 hr, and wood and plastic covered composite doors rated up to 1-1/2 hr.

Due to its superior expansion pressure and volume, the BlazeSeal can also be used as a key component is a wide variety of additional applications and products.

RECOMMENDED FOR • Wood & plastic composite doors • Wood core doors • Steel covered composite doors • Hollow metal doors • Other applications such as intumescent inlay for fire collars, passthrough device or sleeves, ventilated fire barriers, intumescent dampers

Code	Description	Qty
66555	1⁄16" X 1⁄2" X 82' W/ADH (1.5 mm X 13 mm X 25 M W/ADH)	24
66018	‰4" X 1⁄2" X 82' W/ADH (2 mm X 13 mm X 25 M W/ADH)	24
66550	1⁄16" X 1" X 82' W/ADH (1.5 mm X 25 mm X 25 M W/ADH)	12
66048	5⁄64" X 1" X 82' W/ADH (2 mm X 25 mm X 25 M W/ADH)	12
66206	1⁄16" X 12 1⁄2" X 82' W/ADH (1.5 mm X 317 mm X 25 M W/ADH)	1
66024	‰4" X 12 ½" X 82' W/ADH (2 mm X 317 mm X 25 M W/ADH)	80





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

- 1. Clean all surfaces in application area to remove loose debris, dirt, oil, wax, grease, old caulking, etc.
- Consult UL Directory for complete instructions and system listings.

Refer to Safety Data Sheet for additional information.

Technical Data			
Material Properties		Curing Times	
Chemical Base	Graphite based on Synthetic compound	Application Temperature between	40°F – 120°F 4°C – 49°C
Colour	Black	Intumescent Properties	
Weight per unit area (EN1849-2)	1820 g/m³	Expansion Between	375°F – 1100°F
Density (ISO 9427)	1275 kg/m³		190°C – 593°C
Non Volatile (ISO 3251)	99.00%	Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Ash Content (ISO 3451-1)	41.06%	Expansion Pressure	1.391 N/mm² (13.91 Bar)
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl	(TR024 clause 3.1.12 method 4 at 300°C/IHP)	
	acetate)	ASTM E84	
Loss of Ignition (ISO 4589-2)	83.47%	Flame Spread	N/A
Flexibility (ISO 1519)	Pass	Smoke Index	N/A
Total Heat Release (ISO 5660-1)	13.1 mJ/m ²	Limitations	
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	To be used only in the tested configurat by RectorSeal.	ions or as recommended
Application	Dry		
Elastomeric	Yes		
Freeze/Thaw	Excellent		
VOC	<10 g/L		
Storage & Handling			

Metacaulk BlazeSeal should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers.

2. BlazeSeal[™] is installed on either the door frame or the leaf of the door. It may be installed with an appropriate adhesive either in a channel or flush to the surface. BlazeSeal may be supplied with a factory applied pressure sensitive adhesive film.





BLAZE FOAM

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

80

80

- STC Rating 64
- Tested I.A.W ASTM E1966
- (UL2079)

Code Description 66021 48" X 5⁄8" X 1"

66024 48" X 5⁄8" X 1 1⁄2"

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) standards to provide up to a 2hr 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 hour rated gypsum walls





- 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		Curing Times	
Chemical Base	Graphite based on Synthetic compound	Application Temperature between	40°F – 120°F 4°C – 49°C
Colour	Black	Intumescent Properties	
Weight per unit area (EN1849-2)	1820 g/m ³		75°F – 1100°F
Density (ISO 9427)	1275 kg/m ³		90°C – 593°C
Non Volatile (ISO 3251)	99.00%	Expansion Ratio (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	1:25
Ash Content (ISO 3451-1)	41.06%	Expansion Pressure 1.391 N/mm	1² (13.91 Bar)
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)	(TR024 clause 3.1.12 method 4 at 300°C/IHP) ASTM E84	
Loss of Ignition (ISO 4589-2)	83.47%	Flame Spread	N/A
Flexibility (ISO 1519)	Pass	Smoke Index	N/A
Total Heat Release (ISO 5660-1)	13.1 mJ/m ²	Limitations	
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	To be used only in the tested configurations or as recommende by RectorSeal. Blaze Foam is not used in joints that require movement greater than 1".	
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.

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





product details.



FIRESTOP PILLOWS

Firestop Pillows



CERTIFIED

FEATURES

- Easy to install
- Re-enterable
- Re-usable
- Dry installation
- Tested I.A.W ASTM E814 (UL 1479),
- CAN/ULC-S115
- 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 perminant 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





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%.
- Install the pillows taking care to compress each to form a tight seal within the penetration.
- electrical trunking.

Refer to Safety Data Sheet for additional information.

Technical Data			
Material Properties		Curing Times	
Chemical Base	Graphite based on Synthetic	N/A	N/A
	compound (enclapsilated) with Mimeral wool blend	Intumescent Properties	
Colour	Red		375°F – 1100°F 190°C – 593°C
Size	2" x 9" x 6", 3" x 9" x 6"	Expansion Ratio	1:25
Sheet Thickness		(TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	
Nominal Weight		Expansion Pressure 1.391 N/mr TR024 clause 3.1.12 method 4 at 300°C/IHP)	m² (13.91 Bar)
Density (ISO 9427)			_
Non Volatile (ISO 3251)		Coverage Rates	
Ash Content (ISO 3451-1)	N/A	A) Calculate the size in square inches of the opening to be firestoppe B) Calculate the area in square inches required by the penetrating	
Finger Print (ISO 11358/EN1767)	N/A		
Loss of Ignition (ISO 4589-2)	N/A		
Flexibility (ISO 1519)	Pass	chart below	wit in the
Total Heat Release (ISO 5660-1)	N/A	Pillow Size 30% Compression 20% (Compression
Insulation Efficiency (EN1363-1)	N/A	3" x 9" x 6" 18.90 sq. in.	21.60 sq. in.
Application	Dry	2" x 9" x 6" 12.60 sq. in.	14.40 sq. in.
Elastomeric	No	ASTM E84	
Freeze/Thaw	Excellent	Flame Spread	N/A
VOC	<10 g/L	Smoke Index	N/A
Storage & Handling		Limitations	
Metacaulk Firestop Pillows should b For easier installation, bring pillows		To be used only in the tested configurations or as rec by RectorSeal.	commended

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

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 galvanised 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.

6. For electrical trunking, remove the lid and install a pillow inside so it aligns with the depth of the wall. Replace the lid on the





FIRESTOP PUTTY PADS & STICKS

FRP

FM

6

CERTIFIED

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, ASTM E90,
- ASTM G21, STC 60
- UL Classified systems up to
- 3 hr

Fire-Rated Putty Pads & Sticks

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



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.
- in contact with all surfaces to provide maximum adhesion. adhere.
- 6. Work pad to the opposite side of the box and over the edges.
- of box as wallboard is installed.
- 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		Curing Times	
Chemical Base	Non-drying synthetic Polymers and Oils	None	Approx 45 (at 77°F/2
Colour	Light Red/Pink	Application Temperature between	40°F – 1
PH Value (ASTM E70-19)	6.9		4°C – 4
Specifc Gravity	1.48 kg.m ³	Reaction Properties	
Slump (ASTM D816-82 Will not flow up to	250°F (120°C)	Reaction Begins	220°F (104
Approx. expansion on setting	Nil	Coverage Rates	
Non Volatile (ISO 3251)	N/A	No coverage rate required	
Ash Content (ISO 3451-1)	N/A	ASTM E84	
Finger Print (ISO 11358/EN1767)	N/A N/A	Flame Spread	
Loss of Ignition (ISO 4589-2)	N/A	Smoke Index	
Total Heat Release (ISO 5660-1)	N/A N/A	Limitations	
		To be used only in the tested configuration	s or as recommende
STC Rating (ASTM E90)	60 Hand applied	by RectorSeal.	
Application	Hand applied		
Freeze/Thaw	Excellent		
Fungal Growth Rating (ASTM G21)	Zero		
VOC	<10 g/L		
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.

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

5. PUTTY PADS - Remove liner from one side of pad and align with the side of the electrical box partially overlapping the stud and

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

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.



Composite Sheet



FM

CERTIFIED

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

For Large Openings With Or Without Penetrating Items

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).

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





*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.



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		Intumescent Properties	
Chemical Base	Graphite based on Synthetic compound (enclapsilated)	Expansion Begins	375°F – 1100°F 190°C – 593°C
Colour	Silver	Expansion Ratio	1:25
Sheet Size	36" X 36"	" (TR024 clause 3.1.11 Method 1 at 550°C For 30min with top load/HP)	
Sheet Thickness	0.15 ±.05"	Expansion Pressure	1.391 N/mm² (13.91 Bar)
Nominal Weight per sheet	4.8 lb (2.17kg)	(TR024 clause 3.1.12 method 4 at 300°C/IHP)	
Density (ISO 9427)	1275 kg/m³	ASTM E84	
Non Volatile (ISO 3251)	99.00%	Flame Spread	N/A
Ash Content (ISO 3451-1)	41.06%	Smoke Index	N/A
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)	Limitations	and to be used in the
Loss of Ignition (ISO 4589-2)	83.47%	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.	
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		
Storage & Handling			

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





METACAULK FIRE RATED MORTAR

Metacaulk[®] Fire Rated Mortar

CUL US

- Freeze-thaw capabilities
- Mold inhibitor
- High yield

Non sag

FEATURES

- VOC compliant LEED-NC, CS, CI
- 2 year shelf life
- Tested I.A.W ASTM E814 (UL 1479). CAN/ULC-S115
- UL Classified systems up to 4 hr

Fire-Rated Mortar For Large Openings

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



Description - (Red) Code 66334 45 lb (20 kg) Bag

1



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

- to ensure a smooth lump free mix. (Pourable for Floor Openings = 2-1/2 : 1), (Stiff for Wall Openings = 3 : 1).
- appropriate damming* material to support the mix until it sets.
- leakage of the mortar mix during pouring.

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

Technical Data			
Material Properties		Curing Times	
Chemical Base	Gypsum / Cement	Workable pot life	Approx 45 min. (at 77°F/25°C)
Colour	Light Red	Set Hard	3 to 4 hours (at 77°F/25°C)
PH Value (ASTM E70-19)	6.9	Fully Cured	28 Days
Dry Density (ASTM E605 / E605M-19)	880 Kg/m³ (54.9 pcf)	Application Temperature between	40°F – 120°F 4°C – 49°C
Wet Density (ASTM D1475-13 (2020))	1370 Kg/m³ (85.5 pcf)	Structural Properties	
Bulk Density (ASTM D7481-18)	665 Kg/m³ (41/5 pcf)	Compressive Strength	41000 kPa
Approx. expansion on setting	0.10%	(ASTM E761/761M 92(2015)e1)	
Non Volatile (ISO 3251)		Average Pull out Strength (BS 1881 Part 207:1992) N/mm²	2.12 N/mm² (307 psi)
Ash Content (ISO 3451-1)		Crushing Strength WET	5 N/mm² (700 psi)
Finger Print (ISO 11358/EN1767)		Coverage Rates	
Loss of Ignition (ISO 4589-2)		45 lb Bag	2:1 mix ratio 1500 in ³
Total Heat Release (ISO 5660-1)		45 lb Bag	3:1 mix ratio 1350 in ³
Insulation Efficiency (EN1363-1)		ASTM E84	
Application	Trowel or Pour	Flame Spread	N/A
Freeze/Thaw	Excellent	Smoke Index	N/A
		Limitations	
Fungal Growth Rating (ASTM G21)	Zero	Metacaulk FRM is not designed to	
VOC Storage & Handling	<10 g/L	continuous immersion or in areas wet. Metacaulk FRM should not be surfaces above 200°F (93°C)	,

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.

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,

3. WALL OPENINGS: For small holes and gaps, trowel a stiff mix into the opening to the desired depth. For larger holes, use an

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

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.





FM

TESTED IN

CABLE COATING

C70 Industrial Cable Coating

FEATURES

- Water-based acrylic
- Low odor • Asbestos, halogen & solvent
- ACCORDANCE free WITH FM 3971 AND IEEE 1202
 - Internal & external applications • Water, weather & UV resistant
 - No ampacity reduction (No
 - cable derating) • High yield
 - Cures to a flexible seal

Fire Protection for Power Cables

Metacaulk C70 Industrial Cable Coating is a water-based acrylic sealant which is suitable for internal and external applications. The product is ablative and designed to prevent vertical or horizontal flame propagation along single, grouped communication and/or power cables.

Metacaulk C70 Industrial Cable Coating is halogen free and does not contain solvents, plasticizers, asbestos, or other hazardous inorganic fibers. It is a ready-to-use, heavy duty spray coating which is specifically designed for use in industrial and utility applications. It is Factory Mutual (FM) approved and is virtually unaffected by radiation exposure and does not require an additional protective over coating.

RECOMMENDED FOR • Single & bunched communication cables • Power cable • Cable trays



Installation Instruction

Note: Firestop material must be installed in accordance with detailed instructions or the listed system. 1. Cables and cable supporting structures must be dry and free from dust, grease or oil and installed in compliance with local

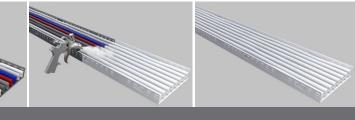
- building and electrical standards.
- NOT ADD WATER OR ANY THINNING COMPONENT.
- done using a paint brush, roller or airless spray- (For Sprayer details please refer to Product Data Sheet).

Refer to Safety Data Sheet for additional information.

Technical Data **Material Properties** Chemical Base Water-Based Acry White / Gr Colour рΗ 8 to Density (ISO 9427) Non Volatile (ISO 3251) Ash Content (ISO 3451-1) Finger Print (ISO 11358/EN1767) Flash Point >212°F/100 Flexibility (ISO 1519) Pa Ampacity reduction None (Based on 0. in (3.2 mm) dry coat thickne Vapor permeability (ASTM E96) 9.32 Per Application Spray or brush Flexible Freeze/Thaw Protect from Freez VOC <10 g Storage & Handling

Metacaulk C70 Industrial Cable Coating should be stored between 40°F (4°C) and 90°F (32°C) under protective cover in their original unopened containers. When properly stored in unopened containers, Metacaulk C70 Industrial Cable Coating has a minimum 2 year shelf life subject to re-inspection. PROTECT FROM FREEZING.

Code	Description - (Red)	Qty
50250	5 gal (19 L) grey spray	1
50253	5 gal (19 L) white spray	1



2. Thoroughly mix the Metacaulk C70 Industrial Cable Coating. Any separated water in the container must also be mixed in. DO

3. Apply Metacaulk C70 Industrial Cable Coating to all areas of the cables and cable run over the required length. This can be

4. Apply Metacaulk C70 Industrial Cable Coating in thin layers. If applying more than one coat, allow 2 to 4 hours drying time between coats. Apply coating to the specified thickness in order to obtain the desired rating, as per the tested system.

Curing Times	
Application Temperature	between 40°F – 120°F 4°C – 49°C
Coverage Rates	
18.5 ft² /gal (0.45 m² /L)*	
*Based on 0.635 in (63 mils or 1.6 n	nm) dry coating thickness
ASTM E84	
Flame Spread	N/A
Smoke Index	N/A
Limitations	
Metacaulk C70 Industrial Cable Coatin in areas under continuous immersion. insure that application is made within temperatures and that the in service f exceeded. PROTECT FROM FREEZING	Care should be taken to appropriate application





ELECTRICAL OUTLET FIRESTOP

Metacaulk[®] Box Guard[™] and Cover Guard[™]



only for Box Guard

Intertek CONTROL NOC 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)

BOX GUARD

Code	Description	Qty
66366	Single box – 1-1¾6" x 2-1¾6" x ¼" (47 mm x 71 mm x 6 mm)	50
66367	Double box – 3-¾" x 3-1¼6" x ¼" (94 mm x 95 mm x 6 mm)	50
66369	4-¾" x 4-¾" x ¼" (111 mm x 111 mm x 6 mm)	50

Fire-rated pad and gasket for electrical boxes

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 prior to the electrical box cover plate being installed. When used as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in (600 mm), and the Metacaulk Cover Guard[™] can also be used as a solution for standard electrical boxes when the 100 sq. in. (0.6 sq M) rule has been violated.

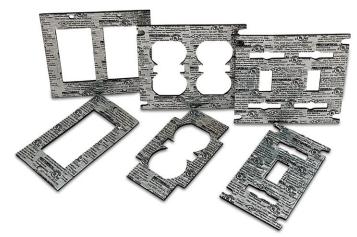
Tested in accordance with ASTM E814 (UL1479), ASTM E119 (UL 263) standard to provide up to a 2 hr fire resistance rating.

RECOMMENDED FOR • Metallic electrical boxes



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





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.
- 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		Curing Times	
Chemical Base Graphite	based on Synthetic compound	Application Temperature between 40°F – 120°F	
Colour	Black	4°C – 49°C	
Weight per unit area (EN1849-2)	7737 g/m³	Intumescent Properties	
Density (ISO 9427)	1334 kg/m³	Expansion between 375°F – 1100°F 190°C – 593°C	
Non Volatile (ISO 3251)	98.60%	Expansion Ratio 1:20	
Ash Content (ISO 3451-1)	42.61%	(TR024 clause 3.1.11 Method 1 at 550°C For 30 min with top load/HP)	
Finger Print (ISO 11358/EN1767)	Ethylene/Vinyl Acetate (copolymer 40% vincyl acetate)	Expansion Pressure 1.330 N/mm ² (13.3 Bar) (TR024 clause 3.1.12 method 4 at	
Loss of Ignition (ISO 4589-2)	82.89%	300°C/IHP)	
Flexibility (ISO 1519)	Pass	Volume	
Total Heat Release (ISO 5660-1)	17.3 mJ/m²	Volume specific to electrical box and cover plate requirement.	
Insulation Efficiency (EN1363-1)	No failure observed at 25 min	ASTM E84 (for Box Guard)	
Asbestos Fillers	None	Flame Spread 0	
Solvents	None	Smoke Index 20	
Hazardous Ingredients	None	Limitations	
Application	Dry	To be used only in the tested configurations or as recommende	
Elastomeric	Yes	by RectorSeal.	
Freeze/Thaw	Excellent		
VOC	<10 g/L		
STC Rating (ASTM E90)	53		
Storage & Handling		Scan QR code for	

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

- 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



F 713-263-7577 800-441-0051



product details.



EXPANDING POLYURETHANE FOAM

Draft-Block[™] Orange

FEATURES

• Expands 3X

ER40378-01

BYR

Meets ASTM E84

• Identifiable orange colour

• Tack-free in approx. 45 min.

• Meets ASTM E814 (Modified)

• No urea or formaldehyde

Completely dielectric

• UL Evaluation Report

Expanding polyurethane foam for utility penetrations

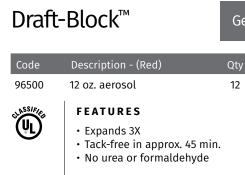
APPLICATION • Draft-Block Orange has a recognized orange colour allowing inspectors to identify the use of an approved fireblock product for Type V residential construction. • Blocks flames and smoke in concealed penetrations, preventing flame spread from room to room and floor to floor, with the foam's 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 - (Red)	Qty
96495	12 oz. aerosol	12



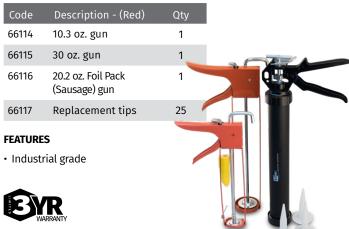






Caulking Guns

Cartridge & sausage





General purpose expanding polyurethane foam

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





	Univ	ersal Collar	For concrete, wood & gypsum						
	Code	Description - (Red)	Qty	l					
	66091	2" x 50' roll	1						
	66095	1" x 50' roll	1						
0	FEATU • Galvan	RES ised steel							

APPLICATION OVERVIEW

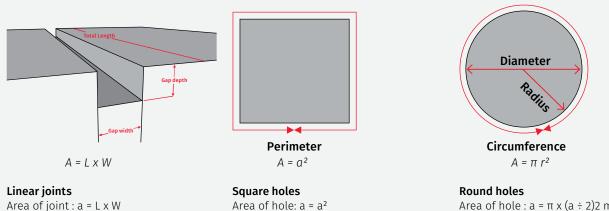
	Application												Test to	D						Page			
Product	-0		•		<u>}-</u> ü																	Clean	
	Metallic Pipes	Combustible Pipes	Cables	Cable Trays	Insulated Pipes	Air Ducts	Mix / Multi Penetrations	Joints	Perimeter Joints	ASTM E84	ASTM E814			ASTM G21-13	CAN/ ULC-S115	ASTM E90	cUL	ULus	FM	FBC	Inter- Tek	Air GOLD	
Metacaulk 150+	✓	<i>✓</i>	✓	-	✓	1	1	1	-	x	х	х	-	х	х	х	x	х	х	х	-	x	08
Metacaulk 1000	1	1	1	1	1	1	1	1	-	х	х	х	-	х	х	х	х	х	х	х	х	х	10
Metacaulk 1200	1	-	1	✓	1	1	1	✓	1	х	x	х	х	х	х	х	х	х	х	х	х	х	12
Metacaulk 350i	1	-	1	✓	1	1	1	\checkmark	1	х	х	х	х	х	х	х	х	х	х	х	х	х	14
Metacaulk 835+	1	1	1	✓	1	\checkmark	1	1	1	х	x	х	х	х	х	х	х	х	х	x	х	х	16
Metacaulk SAS	1	-	-	-	-	-	-	1	-	х	x	x		x		х	x	х	-	x	-	х	18
Metacaulk Cast-In-Place Device	1	1	1	-	1	-	1	-	-	х	х	-	-	-	х	-	х	х	х	x	-	х	22
Metacaulk Wrap Strip	-	1	\checkmark	1	1	-	1	-	-	x	х		-	-	х	-	x	х	х	х	-	х	24
Metacaulk Joint Strip	-	1	-	1	1	\checkmark	1	1	-	х	x	x	-	-	х	-	x	х	х	-	-	х	26
Metacaulk Firestop Collars	-	1	1	-	1	-	1	-	-	x	x	-	-	-	x	-	х	х	x	х	x	х	28
Metacaulk Intumescent Sleeve	-	1	-	-	1	-	1	-	-	x	х	-	-	-	x	-	х	x	-	-	-	x	30
Metacaulk BlazeSeal	-	1	-	1	1	1	1	1	-	x	x	х	-	-	x	-	x	х	х	-	-	x	32
Metacaulk Blaze Foam	-	-	-	-	-	-	-	-	-	х		х					х	х					34
Metacaulk Firestop Pillows	1	1	1	-	1	-	1	-	-	х	x	-	-	-	х	-	x	х	х	x	-	х	36
Metacaulk FRP Fire-Rated Putty	1	-	1	\checkmark	-	-	1	-	-	х	х	-	-	x	х	х	х	х	x	-	-	х	38
Metacaulk Composite Sheet	1	1	1	1	1	1	1	-	-	x	х	-	-	-	x	-	х	x	х	х	-	x	40
Metacaulk FRM Fire-Rated Mortar	✓	1	-	-	-	-	1	-	-	х	х	-	-	-	х	-	х	х	-	-	-	-	42
Metacaulk C70 Cable Coating	-	-	-	\checkmark	-	-	-	-	-	x									х				44
Metacaulk Box Guard Metacaulk Cover Guard	1	-	-	-	-	-	-	-	-		x						х	-	x	-	x	-	46

Calculation of material consumption

NOTE: ALL MEASUREMENTS SHALL BE IN EITHER INCHES OR MILLIMETERS

- a = Area of opening
- b = Depth of product (see listed system)
- c = Penetrant dimension (L x W or π r² *total area added together*)
- d = Annular space (see listed system)
- e = Product packaging size (cartridge/ bucket)
- f = Volume of material per application (If using mm ÷ 1,000 for ml / if using in. ÷ 1.805 for fl Oz)
- g = Number of holes
- h = Height / depth of square opening/joint
- l = Length of square opening/joint
- w = Width of square opening/joint
- x = Quantity of product per application
- z = Total quantity

Caulk / Sealant / Coating :



Mastic volume : f = ((a - c) x b) ÷ 1000 ml No. of cartridges / buckets: $x = (f \div e)$

Area of penetrant : = c Mastic volume = f = ((a - c) x b) ÷ 1,000 ml No. of cartridges / buckets : $x = (f \div e)$ Total quantity : z= (x x g)

Area of hole : $a = \pi x (a \div 2)2 \text{ mm}^2$ Area of penetrant ; = c Mastic volume ; f = ((a-c) x b) ÷ 1,000 ml No. of cartridges needed : $x = (f \div e)$ Total quantity : $z = (x \times g)$

FR Mortar

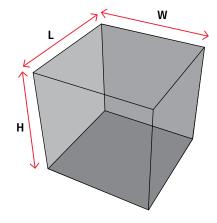
45lb bag (20.4 kg) yield 1350cu in. (22.1 litres) 3.1 Ratio 45lb bag (20.4 kg) yield 150cu in. (24.6 litres) 2.1 Ratio

Blank opening

Area of opening : $a = L \times W \times H$ Number of bags required: $z = (a = 22,100) \div 1000 = No.$ bags

Opening with area of services

Note: Determine percentage of cross sectional ie 30, 40 50% Area of opening : $a = L \times W \times H \times 0.7$, 0.6, 0.5 Number of bags required: $z = (a = 22,100) \div 1000 = No. bags$



RectorSeal® • 2601 Spenwick Drive, Houston, TX 77055, USA • 713-263-8001 • metacaulk.com

RectorSeal®, the logos and other trademarks are property of RectorSeal, LLC, its affiliates or its licensors and are protected by copyright, trademark and other intellectual property laws, and may not be used without permission. RectorSeal reserves the right to change specifications without prior notice. @2023 RectorSeal. All rights reserved. R50263-0823



A CSW Industrials Company

FIRESTOP DIVISION

RectorSeal provides industry-leading digital and print support materials for its extensive chemical and mechanical solutions that include:

- Technical Product Information
- Marketing Support Materials
- Engaging Product Demonstration Videos
- Informative SDS and Product Data Sheets
- On-demand and Live Training and Webinars
- Learning Management System (LMS) support via RectorSeal Academy
- Informative Distributor and Sales Representative Tools
- Industry-related Tradeshow and Events Information

For complete details, visit www.rectorseal.com

For the latest product enhancements, news, and updated information, please follow RectorSeal's social media channels.



facebook.com/rectorseal

linkedin.com/company/rectorseal



twitter.com/rectorseal



instagram/rectorseal

youtube.com/rectorsealcorp

All information is believed to be current at the time of printing, but our policy is one of continuous development. RectorSeal makes no warranties, express or implied, as to its accuracy. RectorSeal reserves the right to discontinue, update or change the information at any time without notice or without incurring obligations

