



Reviewed for Code Compliance
 Permits and Inspections Department
 Approved with Conditions
 02/01/2019



3M™ Fire Barrier Sealant CP 25WB+

Product Data Sheet

1. Product Description

3M™ Fire Barrier Sealant CP 25WB+ is a high-performance, ready-to-use, gun-grade, latex-based, intumescent sealant that dries to form a monolithic fire-stop seal that also acts as a barrier to airborne sound transmission. 3M™ Fire Barrier Sealant CP 25WB+ helps control the spread of fire, smoke and noxious gasses before, during and after exposure to a fire when installed in accordance with a listed through penetration or fire-resistive joint assembly system.

3M™ Fire Barrier Sealant CP 25WB+ firestops blank openings and penetrations passing through fire-rated floor, floor/ceiling or wall assemblies and other fire-rated interior building construction. The unique intumescent property of this material allows 3M™ Fire Barrier Sealant CP 25WB+ to expand and help maintain a firestop penetration seal for up to 4 hours as penetrants are exposed to fire. 3M™ Fire Barrier Sealant CP 25WB+ exhibits excellent adhesion to a full range of construction substrates and penetrants. No mixing is required.



High-performance firestop sealant that also helps minimize sound transfer

Product Color: ■ Red

Product Features

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC S115
- Fire Resistance tested for static construction joint systems in accordance with ASTM E 1966 (UL 2079)
- Re-enterable / repairable
- Meets UL 1479 aging requirements
- Helps minimize sound transfer*
- Applied with conventional caulking equipment (excellent caulk rate)
- Extensive listed systems
- Sag-resistant
- Halogen-free
- Excellent adhesion
- Paintable
- Water clean up

Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants. <250 g/L VOC contents (less H₂O and exempt solvents).

**Minimizes noise transfer—STC-Rating of 54 when tested in STC 54-rated wall assembly.*

2. Applications

High-performance 3M™ Fire Barrier Sealant CP 25WB+ is ideal for sealing single or multiple through penetrations in fire-rated construction. 3M™ Fire Barrier Sealant CP 25WB+ is typically used in mechanical, electrical and plumbing applications to firestop openings created by the following penetrations in fire-rated floors, floor/ceilings or walls: metallic pipe, plastic pipe (excluding CPVC), conduit, power and communication cable, cable trays, busways, combos, insulated pipe and HVAC duct penetrations. 3M™ Fire Barrier Sealant CP 25WB+ is also used to firestop blank openings and static construction joints.

3. Specifications

3M™ Fire Barrier Sealant CP 25WB+ shall be a one component, ready-to-use, gun-grade, latex-based, intumescent firestop sealant capable of expanding a minimum of 3 times its dried volume when exposed to temperatures above 1000°F (538°C). The material shall be thixotropic and shall be applicable to overhead, vertical and horizontal firestops. The sealant shall be listed by independent test agencies such as UL, Intertek or FM. 3M™ Fire Barrier Sealant CP 25WB+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems, ASTM E 1966 (UL 2079) Standard Test Method for Fire Resistive Joint Systems and CAN/ULC S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Sealant CP 25WB+ meets the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70) and NFPA 101.

Typically Specified Division
 Division 7

Section 07 84 00 – Firestopping

Related Sections

Section 07 84 16 – Annular Space Protection

Section 07 84 43 – Fire-Resistant Joint Sealants

Section 07 86 00 – Smoke Seals

Section 07 87 00 – Smoke Containment Barriers

Section 07 27 00 – Air Barriers

Section 21 00 00 – Fire Suppression

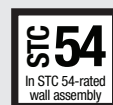
Section 22 00 00 – Plumbing

Section 26 00 00 – Electrical

FIRE BARRIER SMOKE SEAL



SOUND BARRIER



FILL, VOID OR CAVITY MATERIAL FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS
 SEE UL FIRE RESISTANCE DIRECTORY 90G9



LISTED

FILL, VOID OR CAVITY MATERIALS
 90G9



APPROVED

SUBJECT TO THE CONDITIONS OF APPROVAL AS A WALL & FLOOR PENETRATION FIRESTOP WHEN INSTALLED AS DESCRIBED IN THE CURRENT EDITION OF THE FMRC APPROVAL GUIDE

LISTED



Intertek

FIRESTOP SYSTEMS
 SEE INTERTEK DIRECTORY

LISTED



Intertek

FIRESTOP SYSTEMS
 SEE INTERTEK DIRECTORY



For technical support relating to 3M Fire Protection Products and Systems, call: 1-800-328-1687

For more information on 3M Fire Protection Products, visit: www.3m.com/firestop



4. Physical Properties

Color:	Red
Application Temperature Range: (ASTM C 1299)	40° to 122°F (4° to 50°C)
Service Temperature Range:	-20° to 180°F (-28° to 82°C)
STC (ASTM E 90 and ASTM E 413):	54 when tested in STC 54-rated wall assembly
Surface Burning (ASTM E 84):	Flame Spread 0 Smoke Development 0

Hardness (ASTM D 2240 Shore A):	85
Tensile Strength:	85 psi (0.59 MPa)
Volume Shrinkage (ASTM C 1241):	28%
VOC Less H₂O and Exempt Solvents:	<1 g/L

Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions
02/01/2019

Dry: Under typical conditions of 75°F (23°C) and 50% R.H., sealant becomes tack-free in about ten minutes and dry-to-touch in 30 to 60 minutes. Full dry depends upon ambient conditions and volume of sealant. Typical dry rate is approximately 1/8 inch (3 mm) per day.

Unit Volume: 10.1 fl. oz tube (298.7 mL, 18.2 in.³), 20 fl. oz. sausage (591.5 mL, 36.1 in.³), 27 fl. oz tube (798.5 mL, 48.7 in.³), 2 gal. pail (7.57 L, 462 in.³), 5 gal. pail (18.9 L, 1155 in.³)

5. Packaging, Storage, Shelf Life

Packaging	Product packaged in cartridge or pail is enclosed in HDPE plastic containers, sausage is packaged in aluminum foil wrap
Storage	3M™ Fire Barrier Sealant CP 25WB+ should be stored indoors in dry conditions between 40°F and 90°F (4°C and 32°C) in the original unopened package. Avoid repeated freeze / thaw exposures of the 3M™ Fire Barrier Sealant CP 25WB+ prior to installation.
Shelf Life	3M™ Fire Barrier Sealant CP 25WB+ shelf life is 12 months in original unopened containers from date of packaging when stored above 68°F (2°C). Lot numbering (e.g. 8183AS): First digit = Last digit of year manufactured, Second to fourth digit = Julian Date, Letters = Random to distinguish between lot numbers

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system details.

Preparatory Work	The surface of the opening and any penetrating items should be cleaned to allow for the proper adhesion of the 3M™ Fire Barrier Sealant CP 25WB+. Ensure that the surface of the substrates are not wet and are frost free. Sealant can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel.
Installation Details	Install the applicable depth of backing material, if required, as detailed within the applicable UL, Intertek, FM or other third-party listed system. Cut the end of the 3M™ Fire Barrier Sealant CP 25WB+ tube spout to achieve the desired bead width when applying. Install the applicable depth of 3M™ Fire Barrier Sealant CP 25WB+ into the opening flush with the surface of the substrate, or as detailed within the applicable listed system, at the depth for the assembly and rating that is required. Tool within 5 minutes. Clean all tools immediately after use with water.
Limitations	Do not apply 3M™ Fire Barrier Sealant CP 25WB+ when surrounding temperature is less than 40°F (4°C) and in conditions where seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Fire Barrier Sealant CP 25WB+ to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants, or green or partially vulcanized rubber). Do not apply 3M™ Fire Barrier Sealant CP 25WB+ to wet or frost-coated surfaces or to areas that are continuously damp or immersed in water.

NOTICE: This product is not acceptable for use with chlorinated polyvinylchloride (CPVC) pipes.

7. Maintenance

No maintenance should be required when installed in accordance with the applicable UL, Intertek, FM or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Sealant CP 25WB+ is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable listed system, with a minimum 1/2 in. (12.7 mm) overlap onto the adjacent material.

8. Availability

3M™ Fire Barrier Sealant CP 25WB+ is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Sealant CP 25WB+ is available in 10.1 fl. oz. cartridges (12/case), 20.0 fl. oz. sausages (10/case), 27.0 fl. oz. cartridges (6/case), 2 gallon pails (1/case) and 5 gallon pails (1/case). For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit www.3m.com/firestop.

9. Safe Handling Information

Consult product's Material Safety Data Sheet (MSDS) prior to handling and disposal.

Important Notice to User:

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty and Limited Remedy: 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.



Building and Commercial Services Division

3M Center, Building 223-2N-21
St. Paul, MN 55144-1000 USA
1-800-328-1687
www.3m.com/firestop

Please Recycle. Printed in USA. © 3M 2010. All Rights Reserved.
Literature Order Info: 98-0400-5012-6

3M is a trademark of 3M Company. All other trademarks are the property of their respective owners.



FLAME CONTROL NO. 20-20A

Reviewed for Code Compliance
Written Rules of Practice Department
Approved with Conditions
02/01/2019

Intumescent Fire Retardant Paint

Fire Hazard Classification, ASTM E-84 (NFPA 255), Class "A" 30 Minute Rating per ASTM E-84-10 Extended Test

DESCRIPTION:

Flame Control No. 20-20A is a Class "A", interior, low VOC, water base, flat latex, fire retardant paint, manufactured in accordance with Federal Specification TT-P-001932. 20-20A will also provide a 30- minute rating when two coats are applied at the recommended application rates. This coating dries quickly to a flat finish, having the appearance of a conventional flat latex paint. In the presence of heat or flame the coating puffs up (intumesces) and forms a thick, sponge like cellular foam layer; this foam layer insulates the substrate reducing the penetration of heat, thus retarding the flame spread and delaying structural failure.

RECOMMENDED USES:

For application to all interior combustible surfaces where it is either necessary or desirable to reduce the surface burning characteristics of the substrate.

USED BY:

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations, and other facilities where fire retardant coatings are required.

USE UNTOPCOATED OR TOPCOATED:

Topcoating is not necessary for most applications; however, on surfaces requiring maximum washability and cleansibility, No. 20-20A should be topcoated with Flame Control No. 40-40A Low-Gloss Latex Fire Resistant Coating.

PERFORMANCE INFORMATION:

- Class "A" fire rated.
- Provides a 30 minute rating
- Complies with federal, state, local building and fire code requirements.
- Dries by water evaporation to a tough, flexible, matte finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all VOC regulations, including SCAQMD.

CHARACTERISTICS:

Finish Flat, 5 units max. @ 60°

Color White, Off-White and 13 standard pastel colors

Tinting Can be tinted up to 2 fl. oz. of Universal Tint. Check colorant for compatibility.

Spreading

Rate 155 sq. ft./gal. (3.8 m²/L) applied in one or two coats
10.4 mils wet, 4.8 mils dry

V.O.C. 0.41 lbs./gal. (49 g/L)

Volume Solids 46% ± 2

Weight Solids 59% ± 2

Drying Time @

77°F & 50% RH: To touch 30 min.
To handle 1-2 hours
To recoat 2 to 4 hours

Type of Cure Coalescence

Flash Point None
(Pensky-Martens Closed Cup)

Reducer/Cleaner Water

Shelf Life 9 months (unopened)

Packaging 1 & 5 gal. containers
weight/gal. 10.9 ± 0.2 lbs.

Shipping weight 4 gals - 45 lbs.
5 gals - 55 lbs.

Application Brush, roller, conventional and airless spray

PRECAUTIONS:

Adequate ventilation must be provided during and after application until the coating has dried. Avoid breathing vapors or spray mist. Close container after use. DO NOT TAKE INTERNALLY.

Read MSDS before opening containers.

KEEP OUT OF REACH OF CHILDREN

SURFACE PREPARATION:

Surface preparation should be carried out according to good painting practices. All dirt, grease, oil, wax, rust and other foreign matter must be removed. All metal surfaces must be primed.

NEW SURFACES:

New wood, fiberboard and other surfaces having uneven or excess porosity should be sealed with Flame Control No. 3003 Acrylic Primer and allowed to completely dry before applying No. 20-20A. New ferrous metal surfaces must be primed. Apply Temperkote® H₂O primer and allow to completely cure before applying No. 20-20A. **Note:** No. 20-20A will not give a fire resistive rating on metal surfaces.

PREVIOUSLY PAINTED SURFACES:

No. 20-20A may be applied directly to existing paint that is tightly adherent and in good condition. All glossy surfaces should be dulled with sandpaper. Spot prime where necessary with appropriate primer as

shown above, before applying No. 20-20A.



Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

02/01/2019



FLAME CONTROL NO. 20-20A

A Low VOC Water Base, Flat Latex
Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

Intumescent Fire Retardant Paint

02/01/2019

Fire Hazard Classification, ASTM E-84 (NFPA 255), Class “A”

APPLICATION:

Mix paint thoroughly by boxing or stirring. Use full bodied coat for most applications; where thinning is necessary, use only water, not in excess of ½ pint per gallon. No. 20-20A can be applied by brush, roller, conventional or airless spray. Suggested coverage rate is 155 sq. ft./U.S. gallon (3.8 m²/L) applied in one or two coats To achieve a 30 minute rating, two coats is required. To conform with surface burning characteristics established for this paint, dilution of the paint should be compensated with reduced coverage rates. Do not apply when surface or air temperatures are below 50°F (10°C). Protect from freezing.

APPLICATION EQUIPMENT:

Airless Spray

Titan 440 Impact (or Equivalent)

- Pump
- Fluid Pressure. 2250-2700 psi
- Manifold Filter 60 Mesh
- Gun Filter 60 Mesh
- Fluid Hose ¼" diameter
- Gun LX-80 II
- Tip.017 - .023
- Reduction Up to 6.25%
(1/2 pint/gal)

FIRE HAZARD CLASSIFICATION

Flame Spread Rating. Class “A” when tested in accordance with ASTM E-84 (NFPA 255), the coating obtained the following UNDERWRITERS LABORATORIES INC. AND UNDERWRITERS’ LABORATORIES OF CANADA fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR)	
	Flame Spread	Smoke Developed
PRIMER – None BASE COAT – Type 20-20A applied in one or two coats at 155 sq. ft./U.S. gal. (3.8 m ² /L) TOP COAT - None	5	35-65

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.