



Fire Block Sealant FB 136

1. Product Description

3M Fire Block Sealant FB 136 is a one component, non-combustible draft, smoke and fireblocking sealant, designed to resist high temperatures and smoke passage in non-rated construction. Fire Block Sealant FB 136 meets ASTM E-136, current 2003 International Building Code (IBC), 2003 International Residential Code (IRC), 2003 International Residential Mechanical Code, 2003 International Fuel Gas Code and NFPA 5000 draft, smoke and fireblocking requirements.

3M Fire Block Sealant FB 136 features superior adhesion strength, caulk rate and no sag application, plus a halogen-free formula.

3M Fire Block Sealant FB 136 can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel. Fire Block Sealant FB 136 will bond to concrete, brick, metals, wood, plastic and cable jacketing. No mixing is required.

Fire Block Sealant FB 136 Features:

- Easy clean up with water

- No special handling, routine disposal
- Thixotropic: Will not sag or run in vertical or overhead applications
- Halogen-free
- Fast dry: Tack free in approximately 15 minutes
- Minimal shrinkage
- Gray color
- High caulk rate

2. Applications

Use 3M Fire Block Sealant FB 136 to seal interior construction voids around wires, pipes, HVAC ducts and vents, in wood or steel framed non-rated construction. May also be used around chimney, fireplace and other framing gaps.

3. Specifications

Product

The fireblocking, smoke and draft sealant shall be one-part and non-combustible. The material shall be thixotropic and be applicable to overhead, vertical and horizontal applications. The sealant shall be tested to and passed the criteria of ASTM E 136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750° C (1380° F). The sealant shall comply with the requirements of the International Building Code (IBC), International Residential Code (IRC), International Fire Code (IFC), International Mechanical Code (IMC), International Fuel Gas Code (IFGC) and NFPA 5000.

4. Performance

A. Typical Physical Properties

	Unit	Value
Tack Free Time (ASTM C679)	Minutes at 72° F (22° C)	15
Color	N/A	Gray
Density	Lb./gal. (Kg/l)	14.7 (1.76)
Adhesion	All construction substrates	Very Good
Application	Methods	Caulk gun
Solids	Percent (%) by weight	70
VOC	Percent (%) by weight	0
Odor	N/A	Mild

B. Fireblocking Properties

Meets the criteria of ASTM E 136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750° C (1380° F).

C. Fireblocking Code Requirements

Building Code	Section	Title
International Building Code (IBC)	702	Definitions
	705.7	Combustible Framing in Fire Walls
	707.2.6	Shaft Enclosures
	708.4	Continuity (Vertical)
	711.4	Continuity (Horizontal)
	712.3.2.1.3	Penetrations
	716.6.3	Non Fire Resistance Rated Assemblies
	717	Fireblocking
	803.4.1	Direct Attachment and Furred Construction
	804.4.1	Subfloor Construction
	1406.2.4	Fireblocking
	2111.11	Fireplace Clearance
	2111.13	Fireplace Fireblocking
	2113.19	Chimney Clearances
2113.20	Chimney Fireblocking	
International Fire Code (IFC)	703.1.1	Fireblocking and Draftstopping
International Residential Code (IRC)	R502.13	Fireblocking Required
	R602.4	Interior Load-Bearing Walls
	R602.8	Fireblocking Required
	R1001.15	Chimney Clearances
	R1001.16	Chimney Fireblocking
	R1003.11	Fireplace Clearance
International Residential Mechanical Code (IRMC)	M1601.3.3	Fireblocking (Duct Systems)
	M1801.9	Fireblocking (Chimneys and Vents)
International Residential Fuel Gas Code (IRFGC)	G2425.15.4	Clearances (Chimneys and Vents)

5. Installation Techniques

For Sealing Around Penetrations:

- Clean annular space or joint area to be filled with FB 136 to remove all grease, dirt, oil, wax, loose debris, etc. If required, install a non-combustible backing material to assist in FB 136 Sealant installations that have large annular spaces.
- FB 136 Sealant should be applied at temperatures above 40° F (5° C) and the substrate must be frost free.
- Cut the end of the FB 136 tube spout to achieve the desired bead width when applying. Install the FB 136 to the desired depth in the void space until the sealant is flush with the adjacent floor or wall surface.
- Tool within five (5) minutes of application with a slightly wetted putty knife or trowel, if required.
- Clean all tools with water immediately after use.

For Patching Firebricks and Sealing Around Wood Burning Stoves:

- Clean annular space or joint area to be filled with FB 136 to remove all grease, dirt, oil, wax, loose debris, etc. If required, install a non-combustible backing material to assist in FB 136 Sealant installations that have large annular spaces.
- FB 136 Sealant should be applied at temperatures above 40° F (5° C) and the substrate must be frost free.
- Cut the end of the FB 136 tube spout to achieve the desired bead width when applying.
- Install the FB 136 into any void areas or crevices.
- Tool the FB 136 into voids or crevices within five (5) minutes of application until smooth with a slightly wetted putty knife or trowel.

- Clean the surrounding surfaces with a damp towel and clean all tools with water immediately after use.
- Start a low burning fire until the product is dry, approximately 1 hour. Increase heat gradually until the FB 136 has cured, approximately 2 hours. For firebrick patching, FB 136 should be applied in 1/8 in. layers and allowed to cure 24 hours between layers prior to fire curing. Fire curing is not necessary until the final layer has been installed.

6. Limitations

- FB 136 must not be used in areas that are expected to come into contact with water or exterior applications. **FOR INTERIOR USE ONLY.**
- FB 136 must not be used in areas that are subject to continuous vibration.

7. Maintenance

The FB 136 Sealant is stable under normal storage conditions and has a one year shelf life. Normal stock and stock rotation are recommended. **FB 136 Sealant is also Freeze-Thaw Stable; however for maximum shelf life, store between 33°F (1°C) and 90°F (27°C)**

8. Availability

3M Brand Fire Block FB 136 is available from Authorized 3M Fire Protection Products Distributors. It is available in the standard 10.1 fl. oz. cartridge.

Warranty and Limited Remedy. This product will be free from defects in material and manufacture for a period of ninety (90) days from date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If this 3M product is proved to be defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

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