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3M™ Fire Barrier Water Tight Sealant 3000WT

Product Data Sheet

1. Product Description

3M™ Fire Barrier Water Tight Sealant 3000 WT is a high-performance, ready-to-use, single component, neutral cure, non-slumping intumescent silicone sealant. Product cures upon exposure to atmospheric humidity to form a flexible firestop seal that also acts as a barrier to water leakage and airborne sound transmission. 3M™ Fire Barrier Water Tight Sealant 3000 WT 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. 3M™ Fire Barrier Water Tight Sealant 3000 WT meets UL Water Leakage Test, W Rating – Class 1 requirements for systems tested and listed in accordance with ANSI/UL 1479 and is tested in accordance with ASTM G 21 standard practice for determining resistance of synthetic polymeric materials to fungi.

3M™ Fire Barrier Water Tight Sealant 3000 WT firestops penetrations passing through fire-rated floor, floor/ceiling or wall assemblies, static construction joints, blank openings and other fire-rated interior building construction. The intumescent property of 3M™ Fire Barrier Water Tight Sealant 3000 WT allows it to expand and help maintain a firestop penetration seal for up to 4 hours as penetrants are exposed to fire.



High-performance silicone sealant provides a barrier against fire, water and sound

Available in: ■ Light Gray with Black Flecks

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)
- Meets UL Water Leakage Test, W Rating — Class 1 requirements
- Meets optional L-Rating Requirements (smoke seal)
- Minimizes noise transfer — STC-rating of 53 when tested in STC 54-rated wall assembly
- Sag-resistant, re-enterable and repairable
- Halogen-free
- Excellent adhesion, weatherability and caulk rate
- Meets UL 1479 aging requirements

Meets the intent of LEED® VOC environmental quality requirements—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. <250g/L VOC contents (less H₂O and exempt solvents).

FIRE BARRIER UP TO 4 HOUR Fire Protection	SMOKE SEAL L RATED Meets Air Leakage Requirements
WATER BARRIER CLASS 1W Rating UL Water Leakage	SOUND BARRIER STC 53 In SRC 53-rated Wall Assembly
CLASSIFIED UL	
FILL, VOID OR CAVITY MATERIAL FOR USE IN JOINT SYSTEMS AND THROUGH-PENETRATION FIRESTOP SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 8R57	
LISTED FM US	ULC LISTED
Intertek FIRESTOP SYSTEMS SEE INTERTEK DIRECTORY	FILL, VOID OR CAVITY MATERIALS 8R57

2. Applications

3M™ Fire Barrier Water Tight Sealant 3000 WT is a high-performance intumescent firestop ideal for sealing single or multiple through penetrations in fire-rated construction. 3M™ Fire Barrier Water Tight Sealant 3000 WT 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, non-metallic pipe (e.g. plastic), conduit, power and communication cable, cable trays, busways, combos, insulated pipe and HVAC duct penetrations. This product is also used to firestop blank openings and bottom-of-wall static construction joints.

3. Specifications

3M™ Fire Barrier Water Tight Sealant 3000 WT shall be a high-performance, ready-to-use, single component, neutral cure, non-slumping, intumescent silicone sealant capable of expanding a minimum of six times its cured volume when exposed to temperatures above 662°F (350°C). The sealant shall be listed by independent test agencies such as UL, Intertek or FM. 3M™ Fire Barrier Water Tight Sealant 3000 WT 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 Water Tight Sealant 3000 WT meets the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 500, NEC (NFPA 70) and NFPA 101.

Typically Specified MasterFormat (2004)

Section 07 84 00 – Firestopping

Related Sections

- Section 07 27 00 – Air Barriers
- 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 92 19 – Acoustical Joint Sealants
- Section 21 00 00 – Fire Suppression
- Section 22 00 00 – Plumbing
- Section 23 00 00 – Heating, Ventilating, and Air Conditioning (HVAC)
- Section 26 00 00 – Electrical



4. Performance & Typical Physical Properties

Color:	Light Gray with Black Flecks	Working Time:	20–40 minutes
Application Temperature Range: (ASTM C 1299)	-20°F to 122°F (-29°C to 50°C)	Expansion Volume:	> 6 times at 662°F (350°C)
Service Temperature Range:	14°F to 230°F (-10°C to 110°C)	Specific Gravity:	1.25
STC (ASTM E 90 and ASTM E 413):	53 when tested in STC 54 rated wall assembly	VOC Less H₂O and Exempt Solvents:	< 31g/L
Fungi Testing:	Meets ASTM G 21 requirements	Cure: Full cure depends upon ambient conditions and volume of sealant. Cure rate is approximately 1/8 inch (3mm) per day under typical conditions of 75°F (23°C) and 50% R.H.	
Surface Burning (ASTM E 84 Mod):	Flame Spread 0, Smoke Development 0	<i>Meets the intent of LEED® VOC environmental quality requirements.</i>	

Unit Volume: 10.1 fl. oz tube (298.7cc, 18.2 in.), 20 fl. oz. sausage (591.5cc, 36.1 in.), 4.5 gal. pail (.017m³, 1039.5 in.)

5. Packaging, Storage, Shelf Life

Packaging:	Volume: 10.1 fl. oz. cartridge (tube), 20 fl. oz. sausage and 4.5 gallon pail
Storage:	3M [®] Fire Barrier Water Tight Sealant 3000 WT should be stored indoors in dry conditions between 40°F and 90°F (4°C and 32°C). Avoid repeated freeze / thaw exposures of the 3M [®] Fire Barrier Water Tight Sealant 3000 WT while still in the packaging.
Shelf Life:	3M [®] Fire Barrier Water Tight Sealant 3000 WT shelf life is 12 months in original unopened containers from date of packaging when stored above 68°F (2°C).
Lot numbering: First to sixth digit = Date of Production (MMDDYY), Seventh indicator = dash symbol (-), Eighth digit = shift number	

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 clean and free of dirt and debris to allow for the proper adhesion of 3M [®] Fire Barrier Water Tight Sealant 3000 WT. Do not use alcohol to clean surfaces in penetration or joint opening, instead use a commercial solvent such as mineral spirits, xylene, toluene or methyl ethyl ketone (MEK). 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 or other third-party listed system. Cut the end of the 3M [®] Fire Barrier Water Tight Sealant 3000 WT tube spout to achieve the desired bead width. After cutting tip, puncture inner foil seal. Install the applicable depth of 3M [®] Fire Barrier Water Tight Sealant 3000 WT into the opening flush with the surface of the substrate, or as detailed within the applicable listed system, at the required depth for the assembly and rating that is required. Tool within 5 minutes, if required. Clean all tools immediately after use with a commercial solvent such as mineral spirits, xylene, toluene or methyl ethyl ketone (MEK).
Limitations:	Do not apply 3M [®] Fire Barrier Sealant 3M [®] Fire Barrier Water Tight Sealant 3000 WT when surfaces are wet (Note: once applied, sealant may be exposed to intermittent water – exhibits excellent weatherability when fully cured) or frost-coated, where seals may be exposed to rain or in unvented spaces where sealant is not exposed to atmospheric moisture. In confined cure conditions there may be discoloration of brass, copper or other sensitive metals. Do not apply 3M [®] Fire Barrier Water Tight Sealant 3000 WT to polycarbonates or to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants, or green or partially vulcanized rubber).

7. Maintenance

No maintenance is expected to be required when installed in accordance with the applicable UL, Intertek or other third-party listed system. Once installed, if any section of the 3M[®] Fire Barrier Water Tight Sealant 3000 WT is damaged, the following procedure will apply: the damaged section should be removed and reinstalled in accordance with the applicable listed system, with a minimum 1/2 in. (26mm) overlap onto the adjacent material.

8. Availability

3M[®] Fire Barrier Water Tight Sealant 3000 WT is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M[®] Fire Barrier Water Tight Sealant 3000 WT is available in 10.1 fl. oz. cartridges (12/case), 20.0 oz. sausages (12/case) and 4.5 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.



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