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](Image)

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).

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 5000, NEC (NFPA 70) and NFPA 101.

**Typically Specified MasterFormat (2004)**
Section 07 84 00 – Firestopping

**Related Sections**
Section 07 22 00 – Static Joint Sealants
Section 07 22 01 – Fire-Resistant Joint Sealants
Section 07 52 00 – Fire Stoppers
Section 07 52 10 – Acoustical Joint Sealants
Section 12 00 00 – Fire Protection
Section 22 00 00 – Pipes, Mechanical Systems
Section 23 00 00 – Heating, Ventilating, and Air Conditioning (HVAC)
Section 26 00 00 – Electrical
4. Performance & Typical Physical Properties

<table>
<thead>
<tr>
<th>Color:</th>
<th>Light Gray with Black Flecks</th>
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<tbody>
<tr>
<td>Application Temperature Range:</td>
<td>(-40°F to 230°F (-40°C to 110°C))</td>
</tr>
<tr>
<td>Service Temperature Range:</td>
<td>(-40°F to 230°F (-40°C to 110°C))</td>
</tr>
<tr>
<td>STC (ASTM E 90 and ASTM E 413):</td>
<td>53 when tested in STC 54 rated wall assembly</td>
</tr>
<tr>
<td>Fungi Testing:</td>
<td>Meets ASTM G 21 requirements</td>
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<tr>
<td>Surface Burning (ASTM E 84 Mod):</td>
<td>Flame Spread 0, Smoke Development 0</td>
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Unit Volume: 10.1 fl. oz (298.7cc, 18.2 in.), 20 fl. oz sausage (591.5cc, 36.1 in.), 4.5 gal. pail (1971mL, 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 on the adjacent material.

8. Availability

3M® Fire Barrier Water Tight Sealant 3000 WT is available from 3M Authorized Fire Protection Products Distributors and Dealers.

9. Safe Handling Information

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

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