

3M™ Smoke and Sound Sealant SS 100

Product Data Sheet

SOUND BARRIER
STC 56
In STC 56-rated Wall Assembly

ELASTOMERIC
±10%
Movement Capability

SMOKE SEAL
L RATED
Meets Air Leakage Requirements

1. Product Description

3M™ Smoke and Sound Sealant SS 100 is an economical, ready to use, gun-grade, elastomeric sealant that dries to form a monolithic flexible seal that helps prevent unwanted noise infiltration and mitigates the spread of smoke and toxic gas during a fire. 3M™ Smoke and Sound Sealant SS 100 is designed to seal construction joints and through penetrations in non-fire-rated wall and floor assemblies, including smoke partitions and acoustic assemblies. In addition, this product acts as a draftstop to prevent unwanted air movement and provides a barrier against dust and other airborne particulates.



A versatile smoke, sound and draftstop sealant that minimizes noise and helps prevent smoke migration with movement capability for dynamic construction joints

Available in: White ☐

Product Features

- Creates an effective barrier to mitigate smoke and toxic gas spread
- Helps minimize sound transfer
- ±10% movement capability
- An effective draftstop
- Re-enterable / repairable
- Sag-resistant formulation
- Excellent adhesion
- Paintable
- Cleans up with water

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 H_2O and exempt solvents).

2. Applications

Typical applications include: bottom-of-wall, head-of-wall and wall-to-wall construction joints in non-fire-rated construction. Typical through penetrations include: metallic pipe, non-metallic pipe (excluding CPVC), insulated pipe, conduit, power and communication cables and combinations of multiple penetrants. Ideal for smoke partitions and acoustical assemblies.

3. Specifications

3M™ Smoke and Sound Sealant SS 100 shall be a one-component, ready-to-use, gun-grade, elastomeric sealant. 3M™ Smoke and Sound Sealant SS 100 shall be tested to the criteria of ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements and ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials. 3M™ Smoke and Sound Sealant SS 100 shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC.

Typically Specified Divisions
Division 7

Section 07 86 00 – Smoke Seals
Section 07 92 19 – Acoustic Joint Sealants
Section 07 27 00 – Air Barriers

Related Sections
Section 07 84 16 – Annular Space Protection
Section 07 87 00 – Smoke Containment Barriers
Section 09 20 00 – Plaster and Gypsum Board
Section 13 48 00 – Sound Vibrations and Seismic Control
Section 21 00 00 – Fire Suppression
Section 22 00 00 – Plumbing
Section 26 00 00 – Electrical

4. Performance & Typical Physical Properties

Colors Available:	White
Extension/compression:	Capability of ±10%
Application Temperature Range:	40° to 122°F (4° to 50°C)
Surface Burning (ASTM E 84)**:**	Flame Spread 5 Smoke Development 5
STC Acoustic Barrier (ASTM E 90 and ASTM E 413)**:**	56 when tested in STC 56 rated wall assembly

Unit Volume: 20 fl. oz. sausage (591.5cc, 36.1 in.^{3}), 28 fl. oz tube (828.1cc, 50.5 in.^{3}), 5 gal. pail (.017m^3, 1039.5 in.^{3})

Hardness (ASTM D 2240 Shore A)**:**	60
Tensile Strength:	175 psi (1.2 MPa)
Volume Shrinkage (ASTM C 1241)**:**	39.5%
VOC Less H_2O and Exempt Solvents:	<250 g/L

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 (3mm) per day.

Meets the intent of LEED® VOC environmental quality requirements.

5. Storage & Shelf Life

Storage: 3M™ Smoke and Sound Sealant SS 100 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™ Smoke and Sound SS 100 while still in the packaging.

Shelf Life: 3M™ Smoke and Sound SS 100 shelf life is 18 months in original unopened containers from date of packaging when stored above 68°F (20°C) and below 90°F (32.2°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 drawings and details.

Preparatory Work: The surface of the opening and any penetrating items should be cleaned to allow for the proper adhesion of the 3M™ Smoke and Sound Sealant SS 100. Ensure that the surface of the substrates are not wet and are free from dust, debris and frost. 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 3M design. Install the applicable depth of 3M™ Smoke and Sound Sealant SS 100 into the opening flush with the surface of the substrate at the required depth. Please reference 3M™ Smoke and Sound Sealant Installation Guide for further installation details. Tool within 5 minutes. Clean all tools immediately after use with water.

Limitations: Do not apply 3M™ Smoke and Sound Sealant SS 100 when surrounding temperature is less than 40°F (4°C) and in conditions when seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Smoke and Sound Sealant SS 100 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™ Smoke and Sound Sealant SS 100 to wet or frost-coated surfaces or areas that are continuously damp or immersed in water.

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

7. Maintenance

No maintenance is expected when installed in accordance manufacturer's installation guidelines. Once installed, if any section of the 3M™ Smoke and Sound Sealant SS 100 is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable 3M™ Smoke and Sound Installation Guide, with a minimum 1/2 in. (12.7mm) overlap onto the adjacent material.

8. Availability

3M™ Smoke and Sound Sealant SS 100 is available in 20.0 oz. sausages, 28.0 fl. oz. cartridges and 4.5 gallon pails. 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.

3M

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