



# Fire Barrier Water Tight Sealant

## 1000 NS and 1003 SL



### Product Data

#### 1. Product Description

3M Fire Barrier Water Tight Sealant 1000 NS (non-slump) and 3M Fire Barrier Water Tight Sealant 1003 SL (self-leveling) are both ready-to-use, one component, silicone elastomers. Both cure upon exposure to atmospheric humidity to form a flexible seal.

3M Fire Barrier Water Tight Sealant 1000 NS and 1003 SL are used to firestop openings and penetrations through fire rated floor slabs, walls, other building partitions and assemblies. The 3M Fire Barrier Water Tight Sealant 1003 SL formulation is used in floor applications only. 3M Fire Barrier Water Tight Sealants, when properly installed, will help control the spread of fire, smoke and noxious gases. 3M Fire Barrier Water Tight Sealant 1000 NS and 1003 SL also meet the new UL Water Leakage Test, W Rating – Class 1 requirements for systems tested and listed in accordance with ANSI/UL 1479. Refer to [www.3M.com/firestop](http://www.3M.com/firestop) for listed and tested watertight systems.

#### 2. Product Features

The 3M Fire Barrier Water Tight Sealant 1000 NS and 1003 SL are elastomeric and weather resistant. They bond to most construction materials and have the following features:

- Excellent Adhesion
- 15% Compression and Extension
- Re-enterable / Repairable
- Excellent Weatherability
- Cures Upon Exposure to Atmospheric Humidity
- Applied with Standard or Bulk Caulking Guns or Pneumatic Pumping Equipment
- Gray Color

#### 3. Applications

Use 3M Fire Barrier Water Tight Sealant 1000 NS or 1003 SL to firestop the following interior construction voids:

- Blank openings
- Metallic pipes
- Non-metallic pipes
- Cables
- Cable trays
- Insulated pipes
- Combos
- Interior construction joints

Both products restore the integrity of the fire rated floor or wall assembly when installed in accordance with the applicable listed system.

#### 4. Specifications Product

The firestopping sealants

are one component, ready-to-use, non-slumping or self-leveling silicone elastomers. The sealants shall be listed by independent test agencies such as UL, OPL or FM and be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Through-Penetration Fire Stops and ASTM E 1966 (UL 2079) Standard Test Method for Fire-Resistive Joint Systems. They shall comply with the requirements contained within the NEC (NFPA 70), BOCAI, ICBO, SBCCI, IBC, IFC, IRC, NFPA 101 and NFPA 5000.

The Fire Barrier Water Tight Sealant 1000 NS meets ASTM Specification C920, Type S, Grade NS, Class 25, Use NT, M, G, A and O and CAN/CGSB 19.13-M87, Class MCG-2-25-A-L.

The Fire Barrier Water Tight Sealant 1003 SL meets ASTM Specification C920, Type S, Grade P, Class 25, Use NT, M, G, A and O and CAN/CGSB 19.13-M87, Class MCG-1-25-A-L.

#### 5. Performance

##### A. Typical Physical Properties

As Supplied	1000 NS	1003 SL
MIL-S-8802 Flow, Sag or Slump	Nil	Self-Leveling
Working Time, Minutes	5-10	20-40
Color	Light Gray	Light Gray
Full Cure and Adhesion at 77° F (25° C) Days	14-21	14-21
Specific Gravity	1.33	1.31

As Cured – After 21 Days at 77°F (25°C) and 50% R.H.	1000 NS	1003 SL
Hardness, ASTM C 661, Shore A	20-25	10-15
Elongation (per cent) at Break, ASTM D 412	600%	600%
Dielectric Strength, ASTM D 149	479 V/mil (19.0 kV/mm)	503 V/mil (19.9 kV/mm)
UPITT Combustion Toxicity (LC50)	33 grams	33 grams
Service Temperature Range, ASTM C 1299	-60° F to 300° F (-51° C to 149° C)	-60° F to 300° F (-51° C to 149° C)

## B. Firestopping Properties

Meets the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Through-Penetration Fire Stops and ASTM E 1966 (UL 2079) Standard Test Method for Fire-Resistive Joint Systems. Consult current independent test laboratories directories for listings.

## 6. Installation Techniques

Consult your Authorized 3M Fire Protection Products Distributor for current drawings and system details. Listed and tested systems are also available on the 3M Fire Protection Products website – [www.3m.com/firestop](http://www.3m.com/firestop)

### Installation Notes:

- Do not use alcohol to clean surfaces in the penetration or joint opening. Alcohol can keep the sealant from curing properly. Recommended cleaning solvents are mineral spirits, xylene, toluene or methyl ethyl ketone (MEK).
- Clean surface of the opening and all penetrating items to allow proper adhesion of firestop materials. Remove all grease, dirt, oil, wax, loose debris, dust, etc.
- Install the damming materials, as necessary, to meet the requirements of the appropriate system.
- Install the required depth

of the 3M Fire Barrier Water Tight Sealant 1000 NS or 1003 SL for the appropriate system and rating specified.

- Clean all tools after use with a commercial solvent such as, mineral spirits, xylene, toluene or methyl ethyl ketone (MEK).

## 7. Limitations

3M Fire Barrier Water Tight Sealants 1000 NS and

## 9. Availability

3M Fire Barrier Water Tight Sealants 1000 NS and 1003 SL are available from Authorized 3M Fire Protection Products Distributors.

## Packaging Information

Product	Unit	Volume (in. <sup>3</sup> )	Units/Ctn.	Wt./Ctn. (lbs.)
Fire Barrier Water Tight Sealant 1000 NS	10.1 fl. oz. (298 ml)	18.2 (298 cm <sup>3</sup> )	12	12.5 (5.66 kg)
	4.5 gallons (17.0 L)	1040 (17042 cm <sup>3</sup> )	1	50 (22.7 kg)
Fire Barrier Water Tight Sealant 1003 SL	10.1 fl. oz. (298 ml)	18.2 (298 cm <sup>3</sup> )	12	12.5 (5.66 kg)
	4.5 gallons (17.0 L)	1040 (17042 cm <sup>3</sup> )	1	50 (22.7 kg)

1003 SL should not be applied to:

- Polycarbonate plastic
- Building materials that bleed oils or solvents (e.g., impregnated wood, oil-based caulks, green or partially vulcanized rubber)
- Unvented spaces where sealant is not exposed to atmospheric moisture
- Wet or frost-coated surfaces
- In confined cure conditions there may be discoloration of brass, copper or other sensitive metals

## 8. Maintenance

3M Fire Barrier Water Tight Sealants 1000 NS and 1003 SL are stable under normal storage conditions. Shelf life is 12 months from the date of packaging when stored in a clean, dry area with temperatures between 40° F and 90° F (4° C and 32° C). Stock rotation is recommended.

## **10. Safe Handling Information**

Consult the Material Safety Data Sheet prior to handling and disposing of the 3M Fire Barrier Water Tight Sealant 1000 NS and 1003 SL.

**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.

**Limitation of Liability.** Except where prohibited by law, 3M will not be liable for any loss or damages arising from the use of this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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