# TECHNICAL DATA SHEET

**Revision: January 20, 2020**
**Supersedes: August 7, 2018**
**Ref. #: 518327**

***DRAFT & ACOUSTICAL SOUND SEALANT***

# SC175

***DESIGNED FOR USE ON SOUND-RATED WALL SYSTEMS***

OSI® SC175 Draft & Acoustical Sound Sealant is a non-flammable, latex-based sealant specially designed to reduce sound transmissions and drafts in all types of wall systems where a sound-rated assembly is required. Its primary function is to achieve and maintain the specific STC (Sound Transmission Class) value of the system designed. This paintable sealant remains flexible and adheres firmly to wood, metal studs, concrete, gypsum board and most other building materials. It is easy-to-use and cleans up easily with soap and water.

**Available As**:

| Item # | Size | Color |
|---|---|---|
| 1496542 | 28 fl oz (828 ml) cartridge | White |

## FEATURES & BENEFITS

- Designed for Use on Sound-Rated Wall Systems
- Reduces Draft & Sound Transmission
- Tested to UL 1479 and UL 2079
- Tested to ASTM E84
- Stays Permanently Flexible
- VOC Compliant

## RECOMMENDED FOR

- Developed primarily for commercial construction utilizing light weight cavity walls and floor systems
- Used for exposed and unexposed applications at perimeter joints, floor and ceiling runners, cutouts in gypsum board, veneer plaster systems and other areas where a sound rated assembly is required
- Sealant can also be applied or buttered around all electrical boxes and outlets, cold air returns, heating and air conditioning ducts and other utility equipment penetrating wall surfaces for increased acoustical performance
- Works well for sealing sill and base plates in residential construction and non-fire rated systems
- SC175 must be applied in accordance with ASTM C919 (Standard Practice for Use of Sealants in Acoustical Applications
- Non-fire rated and fire rated systems. Refer to UL Fire Resistance Directory for testing details

## LIMITATIONS

- Not for use in applications where water immersion is possible or in areas where moisture, frost or condensation can occur
- Do not use in applications requiring temperature resistance greater than 170°F
- Do not use on metals that will corrode. Use around certain metals may cause discoloration to occur such as cooper
- Consult with manufacturer of adjoining materials for compatibility, including PVC and CPVC materials
- Not recommended for bonding two non-porous surfaces
- Not recommended for use with polyethylene, polypropylene, polytetrafluoroethylene (PTFE)/Teflon® or nylon

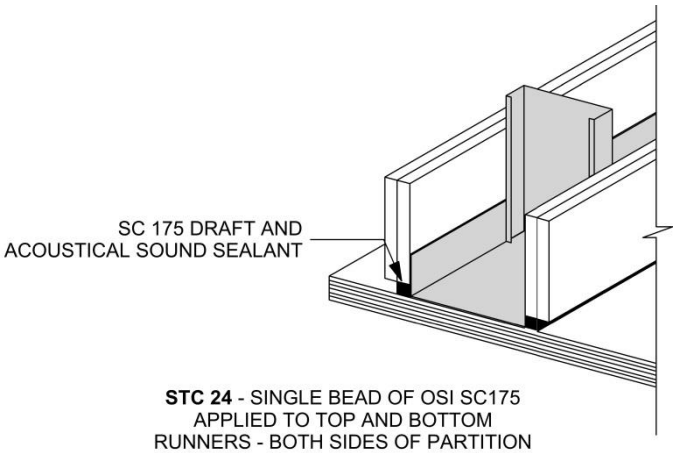
## COVERAGE

| **For a 28 fl. oz. (825 ml) cartridge:** | |
|---|---|
| ▪ A 1/4” (6 mm) bead extrudes approximately 86 ft. (26 m) | ▪ A 3/8” (9.5 mm) bead extrudes approximately 38 ft. (12 m) |

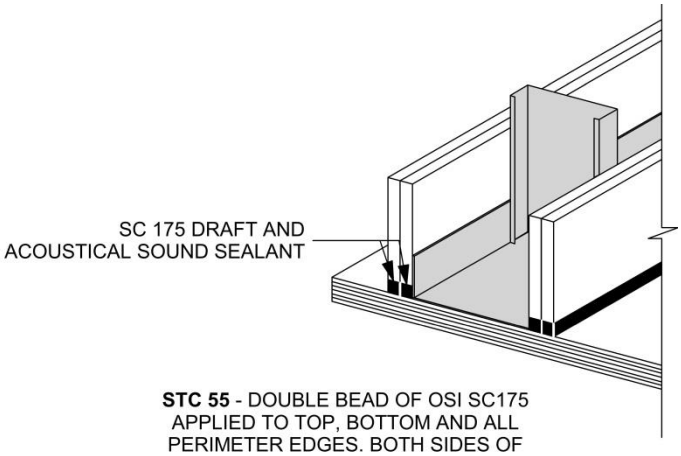
## TECHNICAL DATA

# Sound Transmission Class Values:

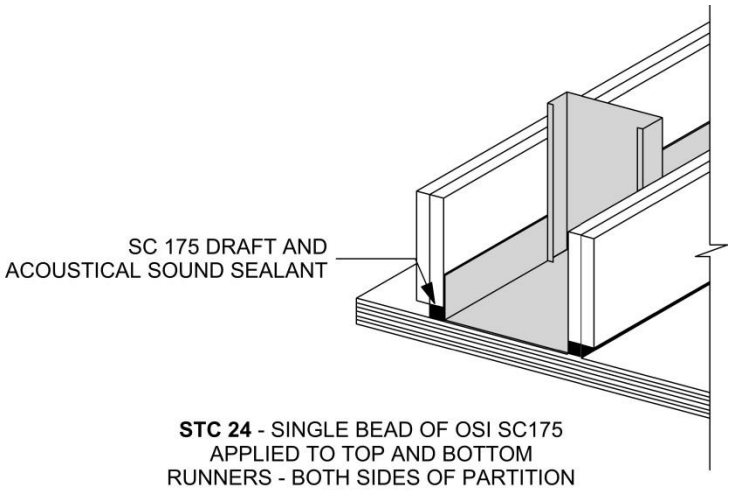
**Tested: Double layer ½ inch Gypsum, Steel Stud**




**STC 24** - SINGLE BEAD OF OSI SC175 APPLIED TO TOP AND BOTTOM RUNNERS - BOTH SIDES OF PARTITION SYSTEM.




**STC 55** - DOUBLE BEAD OF OSI SC175 APPLIED TO TOP, BOTTOM AND ALL PERIMETER EDGES. BOTH SIDES OF PARTITION SYSTEM.




**STC 24** - SINGLE BEAD OF OSI SC175 APPLIED TO TOP AND BOTTOM RUNNERS - BOTH SIDES OF PARTITION SYSTEM.

**UL Classified as:** A material for use as a fill, void or cavity in fire-resistant joint and through-penetration firestop systems

## UL SYSTEM DESIGNS

***See UL Online Certifications Directory (enter keyword: R39255)***

**JOINT SYSTEMS:** FF-S-1047, FW-S-1025

**THROUH PENETRATION FIRESTOP SYSTEMS:** C-A-1689, C-AJ-1690, W-J-2345, W-J-3262, and W-L-3444

**Design System and Assembly Usage for Specifiers, Users and Purchasers**

- The published information cannot always address every construction nuance encountered in the field. It is the user and specifiers responsibility to consult authorities having jurisdiction as to particular requirements covering installation and use of UL Certified products, system designs, and materials. See manufacturers disclaimer.

## TECHNICAL DATA

### Typical Uncured Physical Properties:

| | | | |
|---|---|---|---|
| **Color:** | White | **VOC Content:** | <1.0% by weight CARB<br>45 g/l SCAQMD rule 1168 |
| **Appearance:** | Non-slumping paste | **Shelf Life:** | 24 months from date of manufacture (unopened) |
| **Base:** | Synthetic latex rubber | **Lot Code** | **YYDDD** |
| **Odor:** | Mild acrylic odor | **Explanation** | **YY=** Last two digits of year of manufacture<br>**DDD=** Day of manufacture based on 365 days in a year |
| **Specific Gravity:** | 1.59 | | |
| **Flashpoint:** | Not Applicable | **Example:** | 18061 = 61st day of 2018 = March 2, 2018 |
| **Freeze/Thaw Stability** | 3 Freeze/Thaw Cycles<br>Unaffected by freezing once cured | | |

### Typical Application Properties:

| | | |
|---|---|---|
| **Application Temperature:** | Above 40°F (4°C) | |
| **Open/Tooling Time** | 15 minutes* | |
| **Tack-free Time:** | 30 minutes | |
| **Cure Time:** | 2-7 days or longer* | * Cure time is dependent on temperature, humidity and depth of sealant applied |
| **Sag or Slump:** | 0.10 inches | ASTM D2202 |

### Typical Cured Performance Properties:

| | | |
|---|---|---|
| **Color:** | White | |
| **Service Temperature:** | -5°F (-21°C) to 170°F (77°C) | |
| **Water Resistant:** | Yes | |
| **Paintable:** | Yes, after 24 hours | |
| **Surface Burning Characteristics:** | Flame Spread Index: 0<br>Smoke Development: 0 | ASTM E 84<br>Inorganic reinforced cement board |
| **Sound Transmission Class:** | Unsealed partition: STC = 15 | ASTM E 90 |
| | Single bead of sealant used at top and bottom runners only – both sides of partition system: STC = 24 | |
| | Single bead of sealant used at top, bottom and perimeter joints – both sides of system: STC = 45 | |
| | Double Bead of Sealant used at top, bottom, and all perimeter edges - both sides of partition system: STC = 55 | |
| **Low Temperature Flexibility After Artificial Weathering:** | Pass with no cracking or adhesion loss | ASTM C734 |
| **Consistency Test:** | 300 | ASTM D217 |
| **180° Peel Adhesion:** | | ASTM C794 |
| Aluminum: | 10.0 pli | 7day cure @ 73°F & day cure @ 122°F |
| Wood: | 8.0 pli | |

## TECHNICAL DATA

**Specifications:**

UL File Number R39255

FILL, VOID OR CAVITY MATERIAL
FOR USE IN THROUGH-PENETRATION FIRESTOP
SYSTENS & JOINT SYSTEMS
SEE UL FIRE RESISTANCE DIRECTORY
Control No. # R39255

Tested to or conforms to:

- ASTM C834 – Standard Specification for Latex Sealants
- ASTM E84, Class A – Standard Test Method for Surface Burning Characteristics of Building Materials (Tested at UL under research project)
- ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM C919 – Standard Practice for Use of Sealants in Acoustical Applications
- ASTM D217 – Standard Test Methods for Cone Penetration of Lubricating Grease
- UL 1479 – Standard for Fire Tests of Penetration Firestops
- UL 2079 – Standard for Tests for Fire Resistance of Building Joint Systems
- GreenGuard® Certified

## DIRECTIONS

**Tools Typically Required:**
Utility knife, caulking gun and tool to puncture inside seal of cartridge.

**Safety Precautions:**
Wear gloves.

**Preparation:**
The temperature of the product, the surfaces and the working area must be above 40°F (4°C). For best performance, apply sealant at 70°F (21°C). Ensure surfaces to be sealed are clean, dry, structurally sound and free of dust, grease, oil, and other foreign contaminants. Cut off tip of cartridge at a 45° angle to desired bead size (3/8" recommended). Puncture inside seal of cartridge.

**Application:**
Sealant should be applied as specified in the sound-rated system being installed (either wood or metal studs). Sealant must be applied in accordance with ASTM C 919. Maximum joint size should not exceed 5/8" (15.9 mm) width x ½" (12.7 mm) depth. If necessary, sealant can be painted as applicable to meet project requirements after 24 hours.

**Bottom and Top Runners:**
Apply a continuous 3/8" (9.5 mm) round bead of sealant on runners before setting gypsum board. Press gypsum board firmly into sealant, ensuring complete contact with adjacent materials. Fill joint on top runners to complete the seal. Repeat procedure for double-layer applications.

**Cut-Outs and Perimeter Joints:**
Backs of electrical boxes, pipes, duct systems and other types of utility equipment penetrating wall surfaces shall be buttered with sealant. Seal all joints at perimeter edges including abutting surfaces and corner joints.

**For further application information, refer to ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications**

**Clean-up:**
Clean tools and uncured adhesive residue immediately with warm water and soap. Cured sealant may be carefully cut away with a sharp-edged tool.

## STORAGE & DISPOSAL

**DAMAGED BY FREEZING.** Store in a cool, dry location at room temperature. For maximum shelf life store at 75°F (24°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with

## LABEL PRECAUTIONS

**CAUTION!** Contains ethylene glycol, mineral spirits, and crystalline silica. May cause skin, eye and respiratory irritation. Avoid contact with eyes and skin. Avoid breathing vapors. Use with adequate ventilation. Do not swallow. FIRST AID: If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact, flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. **KEEP OUT OF REACH OF CHILDREN.**

**WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.**

**Refer to the Safety Data Sheet (SDS) for further information.**

## LIMITED WARRANTY

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

## DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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