

Type-SSC Intumescent Silicone Firestop Collar

SELF-SEAL[®]
FIRESTOPPING PRODUCTS

TECHNICAL DATA SHEET

Self-Seal[®] Type SSC is a pre-fabricated collar designed to seal combustible pipe penetrations in fire-rated walls and floors. The galvanized metal collar houses a molded silicone rubber intumescent ring. The silicone composition exhibits excellent performance stability and when exposed to temperatures in excess of 150°C (300°F) it will begin to expand. As the pipe softens and collapses under fire conditions, the silicone composition will rapidly intumesce to fill the void with a patented char composite that contains expanded graphite. The collar is pre-fabricated to fit 1-1/2" (38 mm), 2" (51 mm) and 3" (76 mm), and 4" (102 mm) trade sized pipes. **A 6" (152 mm) collar is available for Polyvinyl Chloride (PVC) and Chlorinated Polyvinyl Chloride (CPVC) pipe penetrations through concrete floor and wall assemblies as a special order item.**

Self-Seal[®] Type SSC is also in compliance with the 3rd edition of ANSI / UL1479 "Fire Tests of Through-Penetration Firestops", for the following environmental exposure tests: Accelerated Aging; High Humidity; Industrial Atmosphere (SO₂ and CO₂) and Combination Wet, Freeze and Dry Cycling.

FEATURES & TYPICAL USES:

Self-Seal[®] Type SSC can be used to firestop solid or cellular core Polyvinyl Chloride (PVC), solid or cellular core Acrylonitrile Butadiene Styrene (ABS), **IPEX XFR[®] 15-50 PVC**, Chlorinated Polyvinyl Chloride (CPVC), **IPEX AquaRise**, **Crosslinked Polyethylene (PEX)** and Flame Retardant Polypropylene (FRPP) closed or vented pipe penetrations. Solid core PVC, **IPEX XFR[®] 5-50 PVC** vented and CPVC sprinkler pipe penetrations firestopped with **Self-Seal[®] Type SSC** meet the Canadian building code test requirement for a pressure differential of 50 Pa between the exposed and unexposed sides of concrete, drywall and framed wood floor-ceiling fire-rated assemblies.

Before ordering, consult Self-Seal[®] firestop listings to confirm that there is a firestop system for your particular site condition. Self-Seal[®] MECHANICAL and ELECTRICAL APPLICATION CHARTS can be used as a quick reference. Self-Seal[®] Type SSC is only recommended for use in firestop systems that are listed in the APPLICATION GUIDELINES FOR Self-Seal[®] Type SSC SILICONE FIRESTOP COLLARS.

SURFACE PREPARATION & APPLICATION:

- All substrates must be clean and sound; free of oil, frost, grease, dust, and other foreign materials.
- Smoke seal the annular space between the pipe and the periphery of the opening with the specified depth of **Self-Seal[®] GG-200** or **GG-266** or flush with the top surface of the floor or both surfaces of the wall.
- Select the collar to fit the diameter of the pipe to be firestopped. Flex the collar and silicone rubber ring, place around the pipe and slide the collar until the anchor tabs are firmly against the underside of the floor or the surface of the wall. Secure the collar by inserting the collar tab into the adjacent slot and then bend it back (the 6" (152 mm) collar is latched with a stainless steel hose clamp). Mark the holes in the anchor tabs and pre-drill to accommodate 1/4" (6.4 mm) x 1-1/4" (32 mm) Tapcon type concrete anchors to be used in conjunction with 1-1/4" (32 mm) diameter fender washers or to accommodate 3/16" (4.7 mm) x 3" (76 mm) toggle bolts in drywall applications. Apply collars on both sides of a wall penetration. See **APPLICATION GUIDELINES FOR Self-Seal[®] Type SSC SILICONE FIRESTOP COLLARS** for further details

MANUFACTURED BY:

NUCO INC. T: 519.823.4994 TF: 1.800.853.3984
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Guelph, ON N1K 1N5



FORM: SSC_TDS.DOC

REV.: 5 DATE: 07/10



FEATURES:

- 100% Intumescent Silicone.
- Pre-fabricated.
- Protects your wall & floor openings.
- Low profile for hard to fit angles.
- Expands to close penetrations.
- Tested at positive pressure to simulate the pressure differentials that can occur in a fire situation.

AVAILABLE SIZES:

- Pre-fabricated collars to fit trade pipes sizes of;
 - 1-1/2" (38 mm)
 - 2" (51 mm)
 - 3" (76 mm)
 - 4" (102 mm)
 - 6" (152 mm)*
- *Special order item, lead times & minimum orders may apply.



www.SelfSealFirestops.com

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SPECIFICATIONS:

SELF SEAL® Type SSC meets:

- ASTM E-814,
- ANSI / UL1479,
- UBC 7-5 and
- CAN/ULC-S115

TYPICAL PROPERTIES*:

These values are not intended for use in preparing specifications. Spec Writers; please contact NUCO Inc. before writing specifications if any further information is required.

Description	Specification
As Supplied...	
Specific Gravity:	1.26 – 1.29
Free Expansion Volume:	> 9 times original volume when heated at 350°C (662°F)
Service Temperature Range:	-14°F to 230°F (-10°C to 110°C)
Surface Burning Characteristics (ASTM E-84):	FSI = 0; SD = 27

**These values are for general information and not for specification purposes.*

DISCLOSURE

The information and data contained herein is BASED ON INFORMATION WE BELIEVE TO BE RELIABLE. Please read all statements, recommendations or suggestions herein in conjunction with our CONDITIONS OF SALE which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as recommendation for any use which would infringe any patent or copyright.

WARRANTY INFORMATION:

NUCO Inc., warrants only that its product will meet its specifications. NUCO shall in no event be liable for incidental or consequential damage. NUCO's liability, expressed or implied is limited to the stated selling price of any goods found to be defective.

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