

1.

APPLICATION GUIDELINES FOR

***SELF SEAL*[®] SL-100/GG-200 FIRESTOP SEALANTS**

1.1 INSTRUCTIONS

- 1.1.1 Application of SL-100/GG-200 sealants shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 1.1.2 Packaging - SL-100/GG-200 sealants shall be delivered to the job site in original unopened containers bearing lot numbers and proper labelling.
- 1.1.3 Storage - SL-100/GG-200 sealants shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging. Store at 50°F to 77°F (10°C to 25°C). Shelf-life is 12 months from date of shipment.
- 1.1.4 Mixing - SL-100/GG-200 sealants are single component materials and do not require mixing.
- 1.1.5 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

1.2 SURFACE PREPARATION

- 1.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants that may inhibit proper bonding.
- 1.2.2 Do not apply SL-100/GG-200 sealants to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 1.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.
- 1.2.4 Priming surfaces - Most masonry, steel, PVC and galvanized surfaces do not require a prime coat before SL-100/GG-200 sealant application. It is recommended, however, that test samples of sealant be applied on the surfaces to test and verify the adhesion.
- 1.2.5 Cleaning - Mask where necessary to avoid spillage onto adjoining surfaces and remove stains on adjacent surfaces as required. No toxic or flammable materials should be employed for clean-up.

1.3 SEALANT APPLICATION

- 1.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 1.2.

- 1.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 1.3.3 The byproduct fumes from the moisture-cure reaction should not be inhaled. An approved organic vapor type respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing contamination of eyes, skin and clothing. The applicator is instructed to read the warning labels on the SL-100/GG-200 sealant containers and corresponding Material Safety Data Sheets.
- 1.3.4 Install fire-resistant mineral wool fiber (*SELF SEAL*[®] MW-300), where required, to establish the thickness and hold the SL-100/GG-200 sealants in place. Installations shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL, cUL or ULC Directory:
- Underwriters Laboratories Inc.[®] Fire Resistance Directory Vol. 2 - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. C-AJ-0048, C-AJ-1201, C-AJ-1227, C-AJ-1369, C-AJ-1393, C-AJ-1452, C-AJ-1554, C-AJ-2207, C-AJ-2405, C-AJ-2439, C-AJ-2503, C-AJ-3102, C-AJ-3113, C-AJ-3251, C-AJ-3255, C-AJ-4036, C-AJ-5092, C-AJ-5093, C-AJ-5163, C-AJ-5228, C-AJ-5229, C-AJ-6024, C-AJ-7064, C-AJ-7099, C-AJ-7109, C-AJ-8048, C-AJ-8090, C-BJ-8022, F-A-1021, F-A-1026, F-A-1055, F-A-2086, F-A-2105, F-A-2111, F-A-2132, F-A-3011, F-B-1015, F-C-1093, F-C-1151, F-C-3076, F-C-3100, F-E-1019, F-E-3013, W-J-1141, W-L-0028, W-L-1086, W-L-1316, W-L-1364, W-L-1366, W-L-1371, W-L-2143, W-L-3067, W-L-3083, W-L-3290, W-L-3305, W-L-4036, W-L-6007, W-L-7065, W-L-7115 and W-L-8012, Joint System Nos. FF-D-1036, FF-S-1031, FW-D-1033, FW-D-1045, FW-S-1016, HW-D-0382, HW-D-0459, HW-D-1032, HW-S-0021, HW-S-0060, and WW-D-1036 and Perimeter Fire Containment System Nos. CW-D-2034 and CW-D-2035.
 - Underwriters Laboratories Inc.[®] Fire Resistance Directory Certified for Canada - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. C-AJ-0048, C-AJ-1019C, C-AJ-1201, C-AJ-1227, C-AJ-1369, C-AJ-1393, C-AJ-1452, C-AJ-1554, C-AJ-2009C, C-AJ-2010C, C-AJ-2013C, C-AJ-2025C, C-AJ-2207, C-AJ-2405, C-AJ-2439, C-AJ-2503, C-AJ-3102, C-AJ-3113, C-AJ-3251, C-AJ-3255, C-AJ-4036, C-AJ-5092, C-AJ-5093, C-AJ-5163, C-AJ-5228, C-AJ-5229, C-AJ-6024, C-AJ-7064, C-AJ-7099, C-AJ-7109, C-AJ-8048, C-AJ-8090, C-BJ-8022, F-A-1021, F-A-1026, F-A-1055, F-A-2001C, F-A-2010C, F-A-2086, F-A-2105, F-A-3011, F-B-1015, F-C-1093, F-C-1151, F-C-2004C, F-C-2022C, F-C-3076, F-C-3100, F-E-1019, F-E-2002C, F-E-3013, W-J-1141, W-L-0028, W-L-1086, W-L-1316, W-L-2013C, W-L-2023C, W-L-2143, W-L-3067, W-L-3083, W-L-3290, W-L-3305, W-L-4036, W-L-6007, W-L-7065, W-L-7115 and W-L-8012, and Joint System Nos. FF-D-1036, FF-S-1031, FW-D-1033, FW-D-1045, FW-S-1016, HW-D-0382, HW-D-0459, HW-D-1032, HW-S-0021, HW-S-0060, and WW-D-1036.
 - Underwriters' Laboratories of Canada Firestop Systems and Components Directory: JF79, JF80, HW19, HW20, SP116, SP769, SP770, SP771, SP772, SP773, SP774, SP775, SP776, SP777, SP778, SP779, SP780, SP781, SP782, SP783, SP940, SP941, SP943, SP945, SPC49, SPC54 and SPC55.
- 1.3.5 Forming and/or tooling shall be performed as required or specified to meet the design tolerances for the specified sealant application using conventional caulking tools. The finish shall be of an even monolithic plane to provide a clean surface.
- 1.3.6 For patching of cured SL-100/GG-200 sealants, examine sealant previously applied. Remove material that may be defective. Insure that the surfaces are clean and free of contaminants. Refer to Section 1.2 for preparation of substrates.

- 1.3.7 For finishing surfaces as specified as per sample submitted by the individual or organization representing the installation, use industry standard practices and tools.
- 1.3.8 SL-100/GG-200 sealants cannot be painted over.
- 1.4 CURING TIME
- 1.4.1 SL-100/GG-200 sealants will be tack-free after approximately 1 hour. Note: final cure for maximum adhesion is approximately 14 days.
- 1.5 QUALITY ASSURANCE
- 1.5.1 At the Plant - Both SL-100/GG-200 sealants are factory-tested for conformance to the original batches witnessed by Underwriters Laboratories Inc.[®] before they are labelled and released for shipping. Retain samples, test results and other documentation are audited under the UL Follow-up Service Program.
- 1.5.2 In the Field - Prior to installing the SL-100/GG-200 sealants, the depth between the top of the mineral wool material and top of floor or wall surface can be measured and the wool level adjusted to ensure that the remaining cavity or void meets the required sealant thickness, refer to Section 1.3.4.
- After 48 hours, inspect the installations for adhesion to the substrates. If defective, refer to Section 1.3.6.

2. APPLICATION GUIDELINES FOR

SELF SEAL[®] GG-266 INTUMESCENT SILICONE FIRESTOP CAULK

- 2.1 INSTRUCTIONS
- 2.1.1 Application of GG-266 caulk shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 2.1.2 Packaging – GG-266 caulk shall be delivered to the job site in original unopened containers bearing lot numbers and proper labelling.
- 2.1.3 Storage – GG-266 caulk shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging. Store at 50°F to 70°F (10°C to 25°C). Shelf-life is 12 months from date of shipment.
- 2.1.4 Mixing – GG-266 caulk is a single component material that does not require mixing.
- 2.1.5 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

2.2 SURFACE PREPARATION

- 2.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants that may inhibit proper bonding.
- 2.2.2 Do not apply GG-266 caulk to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 2.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.
- 2.2.4 Priming surfaces - Most masonry, steel, PVC and galvanized surfaces do not require a prime coat before GG-266 caulk application. It is recommended, however, that test samples of caulk be applied on the surfaces to test and verify the adhesion.
- 2.2.5 Cleaning - Mask where necessary to avoid spillage onto adjoining surfaces and remove stains on adjacent surfaces as required. No toxic or flammable materials should be employed for clean-up.

2.3 CAULK APPLICATION

- 2.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 2.2.
- 2.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 2.3.3 The byproduct fumes from the moisture-cure reaction should not be inhaled. An approved organic vapor type respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing contamination of eyes, skin and clothing. The applicator is instructed to read the warning labels on the GG-266 caulk containers and corresponding Material Safety Data Sheets.
- 2.3.4 Installations shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL, cUL or ULC Directory:
- Underwriters Laboratories Inc.[®] Fire Resistance Directory Vol. 2 - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. C-AJ-1201, C-AJ-1227, C-AJ-1369, C-AJ-1370, C-AJ-1393, C-AJ-1452, C-AJ-1553, C-AJ-1554, C-AJ-2207, C-AJ-2314, C-AJ-2315, C-AJ-2365, C-AJ-2405, C-AJ-2406, C-AJ-2439, C-AJ-2440, C-AJ-2441, C-AJ-2442, C-AJ-2443, C-AJ-2503, C-AJ-2504, C-AJ-2537, C-AJ-2548, C-AJ-2584, C-AJ-2585, C-AJ-2587, C-AJ-5163, C-AJ-5204, C-AJ-5228, C-AJ-5229, C-AJ-5307, C-AJ-7099, C-AJ-7109, C-AJ-8091, C-AJ-8136, C-AJ-8174, C-BJ-2026, C-BJ-2027, C-BJ-2029, C-BJ-2030, C-BJ-8018, F-A-1026, F-A-1055, F-A-2086, F-A-2105, F-A-2111, F-A-2116, F-A-2132, F-A-2133, F-B-2024, F-B-2028, F-C-2200, F-C-2227, F-C-2228, F-C-2345, F-C-5080, F-E-1019, F-E-2006, F-E-2023, W-J-1141, W-L-1315, W-L-1316, W-L-1364, W-L-1366, W-L-1407, W-L-2143, W-L-2145, W-L-2289, W-L-2360, W-L-2398, W-L-2417, W-L-2421, W-L-2422, W-L-2451, W-L-5055, W-L-5234, W-L-7115 and W-L-8070.

- Underwriters Laboratories Inc.® Fire Resistance Directory Certified for Canada - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.® for use in Through-Penetration Firestop System Nos.: C-AJ-1201, C-AJ-1227, C-AJ-1369, C-AJ-1370, C-AJ-1393, C-AJ-1452, C-AJ-1553, C-AJ-1554, C-AJ-2009C, C-AJ-2010C, C-AJ-2012C, C-AJ-2013C, C-AJ-2014C, C-AJ-2025C, C-AJ-2026C, C-AJ-2027C, C-AJ-2029C, C-AJ-2030C, C-AJ-2207, C-AJ-2314, C-AJ-2315, C-AJ-2365, C-AJ-2405, C-AJ-2406, C-AJ-2439, C-AJ-2440, C-AJ-2441, C-AJ-2442, C-AJ-2443, C-AJ-2503, C-AJ-2504, C-AJ-2584, C-AJ-2585, C-AJ-2587, C-AJ-5163, C-AJ-5204, C-AJ-5228, C-AJ-5229, C-AJ-5307, C-AJ-7099, C-AJ-8091, C-AJ-8136, C-AJ-8174, C-BJ-2001C, C-BJ-2002C, C-BJ-2003C, C-BJ-8018, F-A-1026, F-A-1055, F-A-2001C, F-A-2007C, F-A-2008C, F-A-2010C, F-A-2014C, F-A-2015C, F-A-2086, F-A-2116, F-A-2133, F-B-2003C, F-B-2005C, F-C-2001C, F-C-2002C, F-C-2003C, F-C-2004C, F-C-2008C, F-C-2021C, F-C-2022C, F-C-2024C, F-C-2025C, F-C-2026C, F-C-2027C, F-C-2028C, F-C-2030C, F-C-2200, F-C-2202, F-C-2227, F-C-2228, F-C-5080, F-E-1019, F-E-2001C, F-E-2002C, F-E-2004C, F-E-2006, W-J-1141, W-L-1315, W-L-1316, W-L-1364, W-L-1366, W-L-1407, W-L-2012C, W-L-2013C, W-L-2023C, W-L-2025C, W-L-2029C, W-L-2030C, W-L-2033C, W-L-2034C, W-L-2036C, W-L-2143, W-L-2145, W-L-2289, W-L-2398, W-L-2417, W-L-5055, W-L-5234, W-L-7115 and W-L-8070 and Joint System No. HW-S-0079.
- Underwriters' Laboratories of Canada Firestop Systems and Components Directory: SP942, SP944, SP946, SP947, SPC48, SPC49, SPC50, SPC54 and SPC55.

- 2.3.5 Forming and/or tooling shall be performed as required or specified to meet the design tolerances for the specified caulk application using conventional caulking tools. The finish shall be of an even monolithic plane to provide a clean surface.
- 2.3.6 For patching of cured GG-266 caulk, examine caulk previously applied. Remove material that may be defective. Insure that the surfaces are clean and free of contaminants. Refer to Section 2.2 for preparation of substrates.
- 2.3.7 For finishing surfaces as specified as per sample submitted by the individual or organization representing the installation, use industry standard practices and tools.
- 2.3.8 GG-266 caulk cannot be painted over.

2.4 CURING TIME

- 2.4.1 GG-266 caulk will be tack-free after approximately 1 hour.

2.5 QUALITY ASSURANCE

- 2.5.1 At the Plant – GG-266 caulk is factory-tested for conformance to the original batch witnessed by Underwriters Laboratories Inc.® before it is labelled and released for shipping. Retain samples, test results and other documentation are audited under the UL Follow-up Service Program.
- 2.5.2 In the Field - Prior to installing the GG-266 caulk, the depth between the top of the backer rod and top of floor or wall surface can be measured and the backer rod level adjusted to ensure that the remaining cavity or void meets the required sealant thickness, refer to Section 2.3.4.

3. **APPLICATION GUIDELINES FOR** **SELF SEAL[®] TYPE-SSC SILICONE FIRESTOP COLLARS**

3.1 INSTRUCTIONS

- 3.1.1 Application of TYPE-SSC collars shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 3.1.2 Packaging – TYPE-SSC collars shall be delivered to the job site in original unopened containers bearing proper labelling.
- 3.1.3 Storage – TYPE-SSC collars shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging. Store at 50°F to 70°F (10°C to 25°C).
- 3.1.4 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

3.2 SURFACE PREPARATION

- 3.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants that may inhibit proper bonding of the GG-200/GG-266 smoke and water seal.
- 3.2.2 Do not apply GG-200/GG-266 smoke and water seal to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 3.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.
- 3.2.4 Priming surfaces - Most masonry, steel, PVC and galvanized surfaces do not require a prime coat before application of the GG-200/GG-266 smoke and water seal. It is recommended, however, that test samples of sealant be applied on the surfaces to test and verify the adhesion.
- 3.2.5 Cleaning - Mask where necessary to avoid spillage onto adjoining surfaces and remove stains on adjacent surfaces as required. No toxic or flammable materials should be employed for clean-up.

3.3 COLLAR APPLICATION

- 3.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 3.2.
- 3.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 3.3.3 The byproduct fumes from the moisture-cure reaction of the GG-200/GG-266 smoke and water seal should not be inhaled. An approved combination organic vapor / dust type respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing injury or contamination of eyes, skin and clothing during drilling of the concrete or gypsum wallboard to accept the masonry fasteners or toggle bolts and during the application of the GG-200/GG-266. The applicator is instructed to read the warning labels on the GG-200/GG-266 containers and corresponding Material Safety Data Sheets.
- 3.3.4 Installations shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL, cUL or ULC Directory:
- Underwriters Laboratories Inc.[®] Fire Resistance Directory Vol. 2 – Firestop Devices Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. *C-AJ-2207, C-AJ-2405, C-AJ-2441, C-AJ-2584, C-AJ-8136, C-BJ-2026, F-A-2086, F-A-2111, F-C-2227, F-E-2023 and W-L-2143.*
 - Underwriters Laboratories Inc.[®] Fire Resistance Directory Certified for Canada – Firestop Devices Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos.: *C-AJ-2025C, C-AJ-2030C, C-AJ-2033C, C-AJ-2207, C-AJ-2405, C-AJ-2441, C-AJ-8136, C-BJ-2001C, F-A-2001C, F-A-2010C, F-A-2086, F-C-2022C, F-C-2024C, F-C-2025C, F-C-2026C, F-C-2030C, F-C-2227, F-E-2004C, W-L-2023C and W-L-2143.*
 - Underwriters' Laboratories of Canada Firestop Systems and Components Directory: *SPC49, SPC54 and SPC55.*
- 3.3.5 Forming and/or tooling shall be performed as required or specified to meet the design tolerances for the specified GG-200/GG-266 smoke and water seal using conventional caulking tools. The finish shall be of an even monolithic plane to provide a clean surface.
- 3.3.6 For patching of cured GG-200/GG-266 smoke and water seal, examine sealant/caulk previously applied. Remove material that may be defective. Insure that the surfaces are clean and free of contaminants. Refer to Section 3.2 for preparation of substrates.
- 3.3.7 For finishing surfaces as specified as per sample submitted by the individual or organization representing the installation, use industry standard practices and tools.

3.4 QUALITY ASSURANCE

- 3.4.1 At the Plant – TYPE-SSC firestop devices are factory-tested for conformance to the devices witnessed by Underwriters Laboratories Inc.[®] before they are labelled and released for shipping. Retain samples, test results and other documentation are audited under the UL Follow-up Service Program.

4. APPLICATION GUIDELINES FOR

SELF SEAL[®] FIREBAND SILICONE FIRESTOP WRAP STRIPS

4.1 INSTRUCTIONS

- 4.1.1 Application of FIREBAND wrap strips shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 4.1.2 Packaging – FIREBAND wrap strips shall be delivered to the job site in original unopened containers bearing proper labelling.
- 4.1.3 Storage – FIREBAND wrap strips shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging. Store at 10°C to 25°C.
- 4.1.4 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

4.2 SURFACE PREPARATION

- 4.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants that may inhibit proper bonding of the GG-200/GG-266 smoke and water seal.
- 4.2.2 Do not apply GG-200/GG-266 smoke and water seal to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 4.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.
- 4.2.4 Priming surfaces - Most masonry, steel, PVC and galvanized surfaces do not require a prime coat before application of the GG-200/GG-266 smoke and water seal. It is recommended, however, that test samples of sealant be applied on the surfaces to test and verify the adhesion.
- 4.2.5 Cleaning - Mask where necessary to avoid spillage onto adjoining surfaces and remove stains on adjacent surfaces as required. No toxic or flammable materials should be employed for clean-up.

4.3 WRAP STRIP APPLICATION

- 4.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 4.2.
- 4.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 4.3.3 The byproduct fumes from the moisture-cure reaction of the GG-200/GG-266 smoke and water seal should not be inhaled. An approved organic vapor type respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing contamination of eyes, skin and clothing. The applicator is instructed to read the warning labels on the GG-200/GG-266 sealant/caulk containers and corresponding Material Safety Data Sheets.
- 4.3.4 Installations shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL or cUL Directory:
- Underwriters Laboratories Inc.[®] Fire Resistance Directory Vol. 2 - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. *C-AJ-2439, F-A-2105 and W-L-2417.*
 - Underwriters Laboratories Inc.[®] Fire Resistance Directory Certified for Canada - Fill, Void or Cavity Materials Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos.: *C-AJ-2009C, C-AJ-2010C, C-AJ-2013C, F-A-2014C, F-A-2015C, F-C-2003C, F-C-2004C, F-C-2028C, F-E-2002C, W-L-2013C and W-L-2030C.*
- 4.3.5 Forming and/or tooling shall be performed as required or specified to meet the design tolerances for the specified GG-200/GG-266 smoke and water seal using conventional caulking tools. The finish shall be of an even monolithic plane to provide a clean surface.
- 4.3.6 For patching of cured GG-200/GG-266 smoke and water seal, examine sealant/caulk previously applied. Remove material that may be defective. Insure that the surfaces are clean and free of contaminants. Refer to Section 4.2 for preparation of substrates.
- 4.3.7 For finishing surfaces as specified as per sample submitted by the individual or organization representing the installation, use industry standard practices and tools.

4.4 QUALITY ASSURANCE

- 4.4.1 At the Plant – FIREBAND wrap strips are factory-tested for conformance to the original batch witnessed by Underwriters Laboratories Inc.[®] before they are labelled and released for shipping. Retain samples, test results and other documentation are audited under the UL Follow-up Service Program.

5. **APPLICATION GUIDELINES FOR**
***SELF SEAL*[®] TYPE-SSR SILICONE FIRESTOP RINGS**

5.1 **INSTRUCTIONS**

- 5.1.1 Application of TYPE-SSR rings shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 5.1.2 Packaging – TYPE-SSR rings shall be delivered to the job site in original unopened containers bearing proper labelling.
- 5.1.3 Storage – TYPE-SSR rings shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging. Store at 50°F to 70°F (10°C to 25°C).
- 5.1.4 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

5.2 **SURFACE PREPARATION**

- 5.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants that may inhibit proper bonding of the GG-200/GG-266 smoke and water seal.
- 5.2.2 Do not apply GG-200/GG-266 smoke and water seal to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 5.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.
- 5.2.4 Priming surfaces - Most masonry, steel, PVC and galvanized surfaces do not require a prime coat before application of the GG-200/GG-266 smoke and water seal. It is recommended, however, that test samples of sealant be applied on the surfaces to test and verify the adhesion.
- 5.2.5 Cleaning - Mask where necessary to avoid spillage onto adjoining surfaces and remove stains on adjacent surfaces as required. No toxic or flammable materials should be employed for clean-up.

5.3 FIRESTOP RING APPLICATION

- 5.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 5.2.
- 3.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 5.3.3 The byproduct fumes from the moisture-cure reaction of the GG-200/GG-266 smoke and water seal should not be inhaled. An approved combination organic vapor / dust type respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing injury or contamination of eyes, skin and clothing during drilling of the concrete or gypsum wallboard to accept the masonry fasteners or toggle bolts and during the application of the GG-200/GG-266. The applicator is instructed to read the warning labels on the GG-200/GG-266 containers and corresponding Material Safety Data Sheets.
- 5.3.4 Installations shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL or cUL Directory:
- Underwriters Laboratories Inc.[®] Fire Resistance Directory Vol. 2 – Firestop Devices Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos. *F-A-2133*.
 - Underwriters Laboratories Inc.[®] Fire Resistance Directory Certified for Canada – Firestop Devices Classified by Underwriters Laboratories Inc.[®] for use in Through-Penetration Firestop System Nos.: *F-A-2016C*.
- 5.3.5 Forming and/or tooling shall be performed as required or specified to meet the design tolerances for the specified GG-200/GG-266 smoke and water seal using conventional caulking tools. The finish shall be of an even monolithic plane to provide a clean surface.
- 5.3.6 For patching of cured GG-200/GG-266 smoke and water seal, examine sealant/caulk previously applied. Remove material that may be defective. Insure that the surfaces are clean and free of contaminants. Refer to Section 5.2 for preparation of substrates.
- 5.3.7 For finishing surfaces as specified as per sample submitted by the individual or organization representing the installation, use industry standard practices and tools.

5.4 QUALITY ASSURANCE

- 5.4.1 At the Plant – TYPE-SSR firestop devices are factory-tested for conformance to the devices witnessed by Underwriters Laboratories Inc.[®] before they are labelled and released for shipping. Retain samples, test results and other documentation are audited under the UL Follow-up Service Program.

6. **APPLICATION GUIDELINES FOR**
SELF SEAL® MW-300 MINERAL WOOL

6.1 INSTRUCTIONS

- 6.1.1 Application of MW-300 shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 6.1.2 Packaging - MW-300 shall be delivered to the job site in original unopened plastic bags bearing proper labelling.
- 6.1.3 Storage - MW-300 shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging.
- 6.1.4 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.® Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

6.2 SURFACE PREPARATION

- 6.2.1 All surfaces, including but not limited to concrete substrates, reinforcing materials, penetrating items shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants.
- 6.2.2 Do not install MW-300 to surfaces previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 6.2.3 All galvanized materials shall be cleaned by washing with clean, potable water. When in doubt of their cleanliness, use tri-sodium phosphate, then wash thoroughly with clean water and allow to dry.

6.3 MINERAL WOOL INSTALLATION

- 6.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 6.2.
- 6.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 6.3.3 A NIOSH approved dust/fiber respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing contamination of eyes, skin and clothing. The applicator is instructed to read the warning labels on the MW-300 bags and corresponding Material Safety Data Sheets.

- 6.3.4 Installation of MW-300 shall conform to *SELF SEAL*[®] firestop systems listed in the latest UL Fire Resistance Directory Vol. 2 or ULC Firestop Systems and Components Directory for minimum 4.5 pcf (72 kg/m³) mineral wool batt insulation.
- 6.3.5 MW-300 is shipped in standard size batts that shall be compressed in the direction perpendicular to the grain and friction-fitted into voids, joints or cavities in fire separations. It is used as a backing material for SL-100/GG-200/GG-266 sealants/caulk.
- 6.3.6 MW-300 shall be installed so that the total width of uncompressed material is wider than the width of the actual void or joint opening in order to provide the specified minimum compression, refer to Section 6.3.4. The batts shall be placed so that the grain runs parallel to the void or joint. The batts shall be compressed by hand and inserted into the void or joint so that the material is recessed to the proper depth from the wall or floor surface, refer to Section 6.3.4. The same procedure shall be followed for each and every batt, ensuring to butt all ends tightly to previously installed material or the walls of the void or joint opening in order to maintain a tight continuous fit.
- 6.4 QUALITY ASSURANCE
- 6.4.1 In the Field - Prior to installing the SL-100/GG-200/GG-266 sealants/caulk, the depth between the top of the mineral wool material and top of floor or wall surface can be measured and the wool level adjusted to ensure that the remaining cavity or void meets the required thickness, refer to Section 6.3.4.

7. **APPLICATION GUIDELINES FOR *SELF SEAL*[®] PI-400 PIPE INSULATION**

7.1 INSTRUCTIONS

- 7.1.1 Application of PI-400 shall be performed by an approved individual or organization that shall meet our evaluation and control guidelines as specified by Section 07840 (07270) and related work of other Sections.
- 7.1.2 Packaging - PI-400 shall be delivered to the job site in original unopened boxes bearing proper labelling.
- 7.1.3 Storage - PI-400 shall be stored off the ground in a dry area to ensure that humidity and any other possible damage does not occur to the packaging.
- 7.1.4 Reinforcing materials - Any reinforcing material, anchoring devices or accessories, when specified by the purchaser shall conform to surface preparation of this document. Any materials not evaluated for reinforcement or anchoring under the latest Underwriters Laboratories Inc.[®] Listings for Building Materials or Underwriters' Laboratories of Canada List of Equipment and Materials shall be evaluated and approved in writing by the specifier or said purchaser, prior to work commencing.

7.2 SURFACE PREPARATION

- 7.2.1 All penetrating pipes shall be dry and frost-free, free of oil, grease, rust, dirt, or other contaminants.

- 7.2.2 Do not install PI-400 to pipes previously painted or treated with a sealer, curing compound, water repellent, or other coatings, unless confirmed by the manufacturer that they shall perform and insure proper compatibility of materials. Remove coatings as required.
- 7.3 INSTALLATION OF PIPE INSULATION
- 7.3.1 Trained personnel shall inspect and accept all surfaces to insure that proper cleaning and preparation prior to application has been completed. Refer to Section 7.2.
- 7.3.2 All surfaces shall be free of all dirt, dust, oil, grease, paint and coatings and surface contaminants.
- 7.3.3 A NIOSH approved dust/fiber respirator should be worn and passive ventilation is recommended (opening of doors and windows). Safety glasses, gloves, coveralls are important in preventing contamination of eyes, skin and clothing. The applicator is instructed to read the warning labels on the PI-400 boxes and corresponding Material Safety Data Sheets.
- 7.3.4 Installation of PI-400 shall conform to *SELF SEAL*[®] systems listed in the latest UL Fire Resistance Directory Vol. 2 or ULC Firestop Systems and Components Directory for min 7.0 pcf (112 kg/m³) mineral fiber pipe covering jacketed on the outside with an all service jacket.
- 7.3.5 PI-400 is shipped in standard preformed pipe sizes between 1/2" NPS (12.7 mm) and 24" NPS (610 mm) in diameter. PI-400 maintains both the thermal insulation and vapor barrier while passing through fire-rated wall and floor separations. PI-400 is fabricated in one piece and then partially split to retain a longitudinal hinge allowing for ease of installation over penetrating pipes. The vapor barrier jacket overlaps the split with a peel-back tape that is removed to seal along the length of the pipe section.

The purchaser's sole and exclusive remedy against the manufacturer shall be for replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, ACCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide the buyer with replacement of the product or refund of the purchase price of the product if any defect in materials or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as the manufacturer is willing and able to replace the defective materials or refund the purchase price.

- Underwriters Laboratories Inc.® fire endurance listings are based on UL1479 (ASTM E-814) "Fire Test of Through Penetration Firestops", UL2079 (ASTM E-1966 / ASTM E-1399) "Test for Fire Resistance of Building Joint Systems" and ASTM E-2307 "Determining Fire Resistance of Perimeter Fire Barrier Systems Using Intermediate-Scale, Multi-Story Test Apparatus". NUCO INC. makes no claim that these tests, or any other tests, accurately represent all fire environments. Consult your fire protection engineer or insurance company as to the accuracy of specifying fire-resistant materials based on results obtained in fire tests conducted according to any other standards.
- Underwriters' Laboratories of Canada and Underwriters Laboratories Inc.® fire endurance listings are based on CAN/ULC-S115-05 "Standard Method of Fire Tests of Firestop Systems". NUCO INC. makes no claim that these tests, or any other tests, accurately represent all fire environments. Consult your fire protection engineer or insurance company as to the accuracy of specifying fire-resistant materials based on results obtained in fire tests conducted according to any other standards.

THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPHS SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

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