

4100SL Self-Leveling Firestop Caulking

PRODUCT DESCRIPTION

PFP Partners' 4100SL is a one-component self-leveling firestop sealant based on our environmentally friendly chemistry. 4100SL is a latex-based product designed and tested for firestopping through-penetration of horizontal assemblies and construction joints.

4100SL is virtually odourless and also provides a flexible seal which is non-reactive with most substrates.

4100SL can be used on a variety of construction material substrates.

4100SL is non-hazardous, safe for the environment and does not require special shipping procedures. It does not contain solvents and is VOC compliant. Cleaning up is easy with just soap and water (non-cured state).

4100SL meets the green building guidelines for adhesives and sealants as specified by both the US and Canada Green Building Council's LEED (Leadership in Energy and Environmental Design) Green Building Rating Systems.

GENERAL APPLICATION AND USES

4100SL has been designed specifically to seal construction joints and through-penetrations against the spread of fire, smoke, fumes and toxic gases in 1, 2 hour rated floor assemblies.

4100SL has been tested and listed as an effective firestop by third party testing agencies; Underwriters Laboratories (UL & ULC) and Intertek Testing Services - Warnock Hersey (WHi) and meets the requirements of ASTM E-84, ASTM E-119, ASTM E-814, ASTM E-1399, CAN/ULC S101, CAN/ULC S102, CAN/ULC S115, UL 263, UL 763, UL 1479 & UL 2079.

Refer to UL or WHi respective published Fire Resistance Directories or their websites. PFP Partners recommends that this product be installed by those trained in proper installation procedures (TQ Card) and be able to read and understand a firestop system design listing (i.e. UL and/or WHi listing designs).

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4100SL – Self-Leveling Firestop

PACKAGING

- 29 fl. oz. (850 ml) cartridge
- 35.2 fl. oz. (1 L) EZ pour plastic bottle
- 5 us gal. (18.9 L) pail (tapered)

COLOR

Rust Red

Tested and Classified for use in Fire Rated Assemblies:

- Concrete Floors
- Framed Floors

Firestopping Penetration Items:

- Voids
- Electrical, cables, cable trays, busways
- Metallic pipe, conduit and tubing
- Mechanical ducts
- Insulated pipe or tubing
- Grouped penetrations

Firestopping Joints:

- Floor-to-Floor
- Floor-to-Wall

PRODUCT FEATURES

- Water-based formulation
- Elastic properties – non-hardening
- Environmental Safe – No harmful components, solvent free and is VOC compliant – LEEDs – California Air Resource Board SCM Districts – Rule 113 – South Coast Air Quality Management Districts (SCAQMD)
- Can be shipped without restriction and is environmentally friendly
- Inert formula will not interact with substrates
- Works on concrete and wood-frame floors
- Improves STC Values and upgrades sound quality
- Product is stable over several freeze/thaw cycles; however, care should be taken to not freeze the product
- Cured product is mold and mildew resistant
- Easily installed
- Product flows readily
- Accepts primer and paint unlike silicone-based sealants
- Easy cleanup with water and soap (in wet stage)
- Post-consumer recyclable

Disclaimer: All technical advices, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by persons having the skills and know how at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



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TECHNICAL DATA

Base	Vinyl Acetate Polymers		Color	Rust Red
Shelf Life	24 months when product is stored in its original undamaged, unopened packaging and stored in a cool dry place, 40°F to 90°F (4°C to 32°C). Product and substrates should be warmed to at least 50°F (10°C) prior to installation.		Odour	Mild Latex
Aging Test (ASTM D-1791)	Passed		VOC (less water)	0.2 lbs/us. gal (26.0 g/L)
Storage Temperature	40°F to 90°F (4°C to 32°C)		Solids Content (wt. %)	70 to 75%
Application Temperature	50°F to 90°F (10°C to 32°C)		Specific Gravity (ASTM D-1475)	1.40 to 1.50
In-Service Temperature	Up to 120°F (49°C)		Viscosity (ASTM D-2196)	32,000 to 57,600 cps
Curing System	One-component – Air cured		Volume Shrinkage (ASTM C-1241)	Passed
Curing Time (ASTM D-1640)	Dry to touch @ 6 mil	30 to 40 min	Fungus Resistance (wet) (ASTM D-2574)	Passed
	Fully cured time	7 to 21 days	Fungus Resistance (dry) (ASTM D-3273)	Passed
	(depending on thickness & environment)		pH (ASTM E-70)	8.0 to 9.0
Chemical Compatibility (ASTM D-543)	Passed		Surface Burning Characteristics (ASTM E-84)	Flame Spread Index <25 Smoke Development Index <50
Freeze-Thaw (ASTM D-2243)	Passed		Water Resistance (28 day Solubility Loss)	3%

MAINTENANCE

The 4100SL does not require maintenance after installation. If, after installation, the firestop sealant is damaged or cut, repairs should be made with the same sealant. Use only materials approved by through-penetration firestop manufacturer as suitable for repair of original seal. Never mix different manufacturer's firestopping materials.

CHEMICAL COMPATIBILITY

4100SL is chemically compatible with all types of metal, pipe insulation, plastic jacketed wires and cables listed in the system designs.

STORAGE, HANDLING, TRANSPORTATION

Manufacturer recommends storage temperatures between 40°F to 90°F (4°C to 32°C). Keep product stored in a protected covered area in its original containers. Storage in high heat, high humidity conditions may reduce products' shelf life. A stock rotation program is recommended. Transportation temperatures 45°F to 85°F (7°C to 30°C) **DO NOT ALLOW TO FREEZE.**

WARRANTY

Passive Fire Protection Partners will not accept liability for more than product refund. Any claim regarding product defect must be received in writing within 1 year from date of shipment. Passive Fire Protection Partners makes no other warranty or guarantee, express or implied, including warranties or fitness for a particular purpose or merchantability. The seller shall assume no other liability for incidental or consequential damages arising out of the sale or use of this product.

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INSTALLATION GUIDELINES AND SUGGESTED USE

Application

- Method: Pour sealant over tightly packed mineral wool insulation. Apply 4100SL wet sealant to a depth that will result in a dry thickness that will be in compliance with the appropriate listed system design.
Cleaning: Warm water immediately after application and before curing.
Tooling: Tooling creates a stronger bond and a smooth finish. Clean before skin formation.
Caution: Do not apply 4100SL to wet mineral wool. Mineral wool may cause eye, skin or respiratory tract irritation; consult mineral wool manufacturer's MSDS.

Installation Preparation

- 4100SL should be applied to surfaces that are dry, clean and free of dust, dirt and grease.

Health and Safety

- Hand and eye protection is highly recommended. As with all sealants, consult the MSDS.

First Aid

- In case of contact with eyes, flush with large amount of water and consult a physician. For skin contact, wash thoroughly with soapy water. Contact a physician if skin irritation develops or persists. Consult the MSDS for additional information.

Chemical Resistance

- Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis.
Good resistance to mineral oils and grease.

Special Application

- 4100SL should not be installed in submerged conditions.
4100SL may be painted; however, due to the larger number of paints and varnishes available a compatibility test before application is strongly suggested.
4100SL can be applied to a wide variety of substrates. Performance with specific substrates, such as insulation, metals, etc, may differ according to manufacturer; therefore, it is suggested that preliminary compatibility tests be conducted.

LIMITATIONS

This product is not designed to be a waterproof seal. Do not apply if rain is expected within 12 hours, as exposure to snow, rain, running or standing water before the sealant is fully cured may cause the installed material to washout. Not recommended for continuous submersion or use below the waterline. For best results, store and install above 45°F (7°C).

This product is water-based and cures naturally through the evaporation of its water content, as a result, slower curing times may occur in low temperature as well as high humidity environments. Also, any materials used in the firestop installation for damming, insulation or support may affect curing times.

Application of this product is not recommended when frost or moisture is present on the surface to be sealed.

ESTIMATING CHARTS

IMPORTANT NOTE: Estimating charts are for estimating only. Please consult applicable third party testing agency's Fire Resistance Directory for specific installation instructions and requirements.

General Joint Estimating – Imperial

Table with 13 columns: Joint Width (inches), Linear Feet / 29 oz. Tube (Sealant Depth in inches: 1/4, 1/2, 5/8, 1-1/4), Linear Feet / 1 US Gallon (Sealant Depth in inches: 1/4, 1/2, 5/8, 1-1/4), Linear Feet / 2.65 US Gallon (Sealant Depth in inches: 1/4, 1/2, 5/8, 1-1/4). Rows for joint widths 1/4, 1/2, 3/4, and 1.

PDS - 4100SL

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General Penetration Estimating – Imperial - Use this chart to calculate the volume of sealant required for each penetration

Diameter of Opening (Inches)	Nominal Diameter of Pipe (inches)												
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	6.00	8.00	10.00	12.00
	Actual Diameter of SCH 40 Pipe (inches)												
	0.840	1.050	1.315	1.900	2.375	2.875	3.500	4.000	4.500	6.625	8.625	10.750	12.750
1.00	0.23												
2.00	2.59	2.28	1.78	0.31									
3.00	6.51	6.20	5.71	4.23	2.64	0.58							
4.00	12.01	11.70	11.21	9.73	8.14	6.07	2.95						
5.00	19.08	18.77	18.28	16.80	15.20	13.14	10.01	7.07	3.73				
6.00	27.72	27.41	26.93	25.44	23.84	21.78	18.65	15.71	12.37				
7.00	37.93	37.62	37.13	35.65	34.05	31.99	28.86	25.92	22.58	4.01			
8.00	49.71	49.40	48.91	47.43	45.84	43.77	40.64	37.70	34.36	15.79			
10.00	77.99	77.67	77.18	75.70	74.11	72.05	68.92	65.97	62.64	44.07	20.11		
12.00	112.54	112.23	111.74	110.26	108.67	106.61	103.48	100.53	97.19	78.63	54.67	22.33	
14.00	153.38	153.07	152.58	151.10	151.10	147.45	144.32	141.37	138.03	119.47	95.51	63.18	26.26

4100SL - Volumes

Packaging Size	Volume
29 fl. oz. (850 ml) cartridge	52 cu. in. (850 cm ³)
35 fl. oz. (1 L) EZ pour bottle	61.2 cu. in. (1000 cm ³)
2.65 us gal. (10 L) pail	612 cu. in. (10000 cm ³)
5 us gal. (18.9 L) pail (tapered)	1155 cu. in. (18900 cm ³)

ORDERING INFORMATION

4100SL - Packaging

Code	Packaging Size	Color	Dispenser	Units per Case	Units per Skid
SL2	29 fl. oz. (850 ml) cartridge	Rust Red	Pour	12	720
SL5	35 fl. oz. (1 L) EZ pour bottle	Rust Red	Pour	8	480
SL4	5 us gal. (18.9 L) pail (tapered)	Rust Red	Pour	1	36

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