



TECHNICAL DATA SHEET

Revision: August 7, 2018
Supersedes: February 10, 2015
Ref. #: 253023, 253021, 253087,
475152, 475154, 475162, 475206,
253019, 253017, 253089



GUTTER & SEAM SEALANT

GS121

PERMANENTLY FLEXIBLE, WATER RESISTANT SEAL

Description: OSI GS121 Gutter & Seam Sealant is composed of high quality resins and polymers which cures to form a tough, rubbery seal. This seal expands and contracts with the change of weather and temperature without cracking. Formulated especially for sealing aluminum, galvanized and vinyl clad gutters and downspouts.

Available As:

Item #	Size	Color	
1460689	5 fl oz (148 ml)	White	Squeeze Tube
1460359	5 fl oz (148 ml)	Aluminum	Squeeze Tube
1460731	5 fl oz (148 ml)	Clear	Squeeze Tube
1797609	5 fl oz (148 ml)	White - VOC	Squeeze Tube
1797611	5 fl oz (148 ml)	Aluminum - VOC	Squeeze Tube
1939148	10 fl oz (295 ml)	White	Cartridge
1939849	10 fl oz (295 ml)	Aluminum	Cartridge
1797607	10 fl oz (295 ml)	White - VOC	Cartridge
1797596	10 fl oz (295 ml)	Aluminum - VOC	Cartridge
1943973	10 fl oz (295 ml)	Clear	Cartridge

FEATURES & BENEFITS

- Permanently Flexible, Water Resistant Seal
- Seals Most Common Gutter and Downspout Materials
- Expands and Contracts with Temperature Changes
- Cures to a Tough Rubbery Gasket

RECOMMENDED FOR

OSI GS121 is designed for sealing around aluminum, galvanized and vinyl gutters and downspouts, sealing seam joints and cracks in gutter troughs, and for use on sheet metal, air conditioning and heating ducts and ventilators.

LIMITATIONS

- Do not tool, feather or smear sealant
- Not recommended for interior use in occupied structures or as an expansion joint control sealant
- Not suitable for use on copper, rubber, silicone or other types of petroleum-based seals such as butyl rubber
- For joints deeper than 3/8" (9.5 mm), a backing material should be used

COVERAGE

For a 5 fl. oz. (148 ml) squeeze tube:

- A 1/4" (6 mm) bead extrudes approximately 15.3 ft. (4.7 m)
- A 3/8" (9.5 mm) bead extrudes approximately 6.8 ft. (2.1 m)

For a 10 fl. oz. (295 ml) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 30.6 ft. (9.3 m)
- A 3/8" (6 mm) bead extrudes approximately 13.6 ft. (4.2 m)



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TECHNICAL DATA

Typical Uncured Physical Properties:

Color:	White, Aluminum, Clear	Flashpoint:	White & Aluminum 5 oz.: 0°F (-17.78°C) White & Aluminum 10 oz.: 105°F (40.6°C) VOC White & Aluminum (5 & 10 oz.): 8.6°F (-13°C) Clear (5 oz & 10.2 oz): 80°F (26.7°C)
Base:	White & Aluminum: SBR Rubber Clear: Synthetic Polymer	Shelf Life:	18 months from date of manufacture (unopened)
Odor:	Solvent	Lot Code	YYDDD
Specific Gravity:	White & Aluminum 5 oz: 0.909 White 10 oz oz: 1.342 Aluminum 10 oz: 1.271 VOC White & Aluminum 5 oz: 1.116 VOC White & Aluminum 10 oz: 1.420 Clear 5 oz: 0.908 Clear 10 oz: 0.927	Explanation:	YY= Last two digits of year of manufacture DDD= Day of manufacture based on 365 days in a Year Example: 18061 = 61 st day of 2018 = March 2, 2018
VOC Content:	Color/Package	SCAQMD	CARB
	White & Aluminum 5 oz:	≤ 513 g/l	≤ 57.0% by weight
	VOC White & Aluminum 5 oz:	351 g/l	3.9% by weight
	White & Aluminum 10 oz:	≤ 369 g/l	≤ 28.0% by weight
	VOC White & Aluminum 10 oz:	236 g/l	3.7% by weight
	Clear 5 oz:	430 g/l	47.9% by weight
	Clear 10.2 oz:	337 g/l	37.2% by weight

Typical Application Properties:

Application Temperature:	Apply between 40°F (4°C) and 120°F (49°C) For easier extrusion of sealant at lower temperatures, store cartridge at room temperature, at least, 24 hours prior to using	
Skin Formation	30 minutes*	At 72°F and 70% R.H.
Cure Time:	7-14 days*	*Cure time is dependent on temperature, humidity and depth of sealant applied
Extrusion Rate:	50 – 75 lbs.	5/16" opening @ 5 in/min at 73°F
Vertical Sag:	0.50 inches Maximum	Boeing, 15 minutes

Typical Cured Performance Properties:

Color:	White, Aluminum, Clear	
Service Temperature:	-0°F (-18°C) to 150°F (66°C)	
Water Resistant:	Yes	
Paintable:	Yes, after full cure	
Shrinkage	30%	
180° Peel Strength:	~ 6 lb./inch for the following substrates: Painted Aluminum Milled Aluminum PVC Siding Galvanized Metal	ASTM C794 with water immersion

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun and tool to puncture inside seal of cartridge.

Safety Precautions:

If used for an interior application, use proper ventilation to the outdoors during application and cure. Wear gloves. Wash hands after use.

Preparation:

Apply sealant between 40°F (4°C) and 120°F (49°C). For easier extrusion of sealant at lower temperatures the material should be kept at room temperature 24 hours prior to use. All surfaces must be clean, dry and free of old caulk, grease, dust and other contaminants. Cut nozzle at a 45° angle to desired bead size (3/8" is recommended) and puncture inner seal.



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Application:

Using a caulking gun (for cartridge) or squeezing tube (for squeeze tube), apply sealant with steady pressure, forcing the sealant into the joint. If the depth of the joint exceeds 3/8" (9.5 mm) the use of a backer rod is recommended. Sealant skins over in about 30 minutes depending on temperature and humidity. Tool sealant within 30 minutes after application (Note: Clear sealant is self-leveling, and no tooling is required). Full cure within 7-14 days. Low temperature and high humidity will extend the skinning and cure time. User is responsible for determining suitability for their intended application.

Clean-up:

Clean tools and uncured adhesive residue immediate with mineral spirits or paint thinner. Cured sealant may be carefully cut away with a sharp-edged tool.

STORAGE & DISPOSAL

NOT DAMAGED BY FREEZING. Store in a cool, dry place. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

LABEL PRECAUTIONS

For 5 oz squeeze tubes and 10 oz cartridges (Clear):

WARNING! FLAMMABLE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

WARNING! Contains xylene, mineral spirits, and ethylbenzene. Vapors may ignite explosively. Do not use or store near heat, sparks, or open flame. Do not smoke when using this product. Extinguish flames/pilot lights and turn off sources of ignition (stoves, heaters, electric motors) during use and until vapors are gone. Open windows and doors for cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid eye and skin contact. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not swallow. Wash thoroughly after handling.

FIRST AID: If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes, call a physician. For skin contact wash thoroughly with soap and water for 15 minutes. If overcome by vapors, get fresh air. **NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain nervous system, liver and kidney damage or may cause cardiac arrhythmia. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. KEEP OUT OF THE REACH OF CHILDREN.**

For 5 oz squeeze tubes (White & Aluminum):

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. DANGER! Contains Petroleum distillates, 1,2,4-trimethylbenzene, and n-hexane. Vapors may ignite explosively. Do not use or store near heat, sparks, or open flame. Do not smoke when using this product. Extinguish flames/pilot lights and turn off sources of ignition (stoves, heaters, electric motors) during use and until vapors are gone. Open windows and doors for cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid eye and skin contact. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area. Prolonged or repeated exposure to hexane can cause nerve damage to extremities, which may be permanent. Do not swallow. Wash hands after use. **FIRST AID:** If swallowed do not induce vomiting, call physician or Poison Control center. For eye contact flush with water for 15 minutes, call physician. For skin contact, wash with soap and water. If overcome by vapors, get to fresh air. **KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain nervous system, liver and kidney damage or may cause cardiac arrhythmia. DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. (* note – the 5 oz. squeeze tube also contains aluminum)**

For 5 oz cartridges (VOC White & Aluminum):

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. IRRITATES EYES SKIN AND RESPIRATORY TRACT. DANGER! Contains methyl acetate, chloro-fluoro solvent, aliphatic hydrocarbon, and xylene. Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish flames/pilot lights and turn off sources of ignition (stoves, heaters, electric motors) during use and until vapors are gone. Open windows and doors for cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid eye and skin contact. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes, call a physician. For skin contact wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain nervous system, liver and kidney damage or may cause cardiac arrhythmia. DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**

For 10 oz cartridges (White & Aluminum):

WARNING! COMBUSTIBLE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. WARNING! Contains Mineral Spirits, 1,2,4-trimethylbenzene, and crystalline silica. Do not use or store near heat, sparks, or open flame. Do not smoke when using this product. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well-



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Continuation of: 10 oz cartridges (White & Aluminum):

ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not take internally. Wash thoroughly after handling. **FIRST AID:** If swallowed do not induce vomiting, call physician or Poison Control center. For eye contact flush with water for 15 minutes, call physician. For skin contact, wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain nervous system, liver and kidney damage or may cause cardiac arrhythmia. DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**

For 10 oz cartridges (VOC White & Aluminum):

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. IRRITATES EYES SKIN AND RESPIRATORY TRACT. DANGER! Contains chloro-fluoro solvent, aliphatic hydrocarbon, methyl acetate, xylene, and crystalline silica. Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish flames/pilot lights and turn off sources of ignition (stoves, heaters, electric motors) during use and until vapors are gone. Open windows and doors for cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid eye and skin contact. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes, call a physician. For skin contact wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain nervous system, liver and kidney damage or may cause cardiac arrhythmia. DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**



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

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

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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OSI works side by side with residential builders, contractors and remodeling professionals who use our products every day on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

For Technical Assistance call: 1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

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