Technical Data Sheet

Revision: June 1, 2024
Supersedes: September 15, 2022
Ref. #: 253795, 426871

Advanced Siliconized Acrylic Window & Door Sealant

DESCRIPTION

GE branded Advanced Siliconized Acrylic Window & Door Sealant allows you to create paintable seals without compromising on weatherproof performance, making it ideal for exterior paint projects exposed to harsh weather conditions. This premium sealant has strong adhesion to common building materials including most metals, wood, composites, brick, stone, stucco, cement board, drywall, plaster, vinyl siding, PVC, painted surfaces and more. Thanks to its excellent flexibility and durability, this sealant resists cracking, even after painting, and is mold and mildew resistant once cured.

Available as:

Item #	Country	Package	Size	Color
2863841	USA	Plastic cartridge	10 fl. oz. (295 ml)	White
2863819	USA	Plastic cartridge	10 fl. oz. (295 ml)	Clear

FEATURES & BENEFITS

- Paintable performance combined with weatherproof protection
- 24-hour water-ready [1]
- 30-minute paint-ready [2]
- Easy to apply and tools smoothly
- Long-lasting mold-resistant [3] sealant
- Washout resistant [5] and scrubbable
- Excellent flexibility [4] for durable, crack-resistant seals
- Low odor
- Exceeds ASTM C-920, Type-S, NS, Class 25
- Ideal for caulking around windows, doors, and other household projects
- Easy soap and water cleanup

RECOMMENDED FOR

Advanced Siliconized Acrylic Window & Door Sealant may be used on a variety of common building materials including most metals and woods, aluminum, composites, brick, stone, stucco, masonry, cement board, glass, porcelain, ceramic tile, drywall, plaster, vinyl siding, PVC, fiberglass, and painted surfaces.

LIMITATIONS

Should not be considered:

- For structural repairs
- For use underwater or in other applications where the product will be in continuous contact with water
- For use in food contact applications (direct or indirect)
- For use in aquariums
- On architectural joints, joints subject to heavy abrasion or wear, tuck pointing, or butt joints
- On frozen or contaminated surfaces
- Under exceedingly hot or cold conditions (see Sealant Application section for additional information)
- On excessively basic or acidic substrates
- For use on surfaces that are above 100°F (38°C)
- For use on unfinished or unprimed fiber cement
- On joints deeper than 1/4” without the use of a backer rod

COVERAGE

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

- A 1/4” (6 mm) bead extrudes approx. 31 ft. (9.4 m)
- A 3/8” (9.5 mm) bead extrudes approx. 13.7 ft. (4.2 m)

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TECHNICAL DATA

Typical Uncured Physical Properties			Typical Application Properties	
Colors:	White and Clear **Note:** Clear extrudes white but turns clear as it dries		Application Temperature:	Apply at ambient temperatures above 40°F (5°C) and below 100°F (38°C) Surface temperatures must be above 40°F (5°C)
Appearance:	Non-slumping paste			
Base:	Elastomeric Acrylic/ Urethane Latex polymers		Odor:	Mild acrylic
Specific Gravity:	1.224 (white), 1.267 (clear)		Tooling / Open Time:	5-10 minutes*
Viscosity:	200,000 - 300,000 cp		Skin Time /Tack Free:	30-60 minutes*
VOC Content:			Cure Time:	1-14 days or longer*
White:	< 0.1% by weight < 5 g/l	CARB SCAQMD rule 1168	* At 73°F (23°C) and 50% relative humidity. Time is dependent on temperature, humidity, porosity of substrates and depth of sealant applied. Cure time is significantly increased in cold temperatures and/or low humidity conditions.	
Clear:	0.4% by weight 63 g/l	CARB SCAQMD rule 1168	Clean Up:	Clean up uncured sealant residue immediately with warm, soapy water. Cut or scrape away cured sealant using a sharp-edged tool.
Shelf Life:	24 months from date of manufacture (unopened)			

Lot Code Explanation:	YYDDD – ### YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days per year
Example:	20082 = March 23, 2020 is the date of manufacture and March 23, 2022 is the expiration date

Typical Cured Performance Properties					
Colors:	White or Clear only		Service Temperature:	-5°F (-21°C) to 170°F (77°C)	
Cured form:	Non-flammable, rubbery solid		Shore A Hardness:	24 ± 5	ASTM C661
Water Resistant:	Yes, 24-hour water ready [1]		Elongation at Break:		
Paintable:	Yes [2]		Full Cure - 30 days at 122°F:	468 ± 38%	ASTM D412 Die C
Shrinkage:	≤ 30% (Clear)		Tensile Strength at Break:	(Clear)	
Movement Capability:	± 25%	ASTM C719	Full Cure - 30 days at 122°F:	302 ± 5 psi	ASTM D412 Die C

Specifications:	Exceeds the performance requirements of: ASTM C-920, Type S, Grade NS, Class 25, Use NT, A test requirements

[1] Exposure to water possible in 24 hours with bead size max 3/16", temperature min 65°F (18.3°C) and humidity min 50%. Otherwise, sealant should not be exposed to water until fully cured. Do not touch or clean caulk for 24 hours, or until fully cured, unless applying paint

[2] Sealant can be painted with latex paint or primer in 30 minutes with bead size ¼", temperature min 65°F (18.3°C) & humidity min 50%. Otherwise, sealant should not be painted for 2 hours. Spray paint can be applied immediately. Allow to dry for 24 hours if using oil-based paints. Apply paint with reduced applicator pressure to avoid disturbing the sealant.

[3] Fully cured sealant is resistant to stain-causing mold & mildew. Regular cleaning of sealant is required however, as soap and other residue can cause secondary mold and mildew growth.

[4] Based on ASTM C-920, TYPE-S, NS, CLASS 25 analysis, product can span gaps of up to 5/8" x 5/8" with over 465% elongation and 25% joint movement.

[5] Advanced Siliconized Acrylic – White (only) is specially formulated to provide rain washout resistance

DIRECTIONS

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

Safety Precautions:
Wear gloves and wash hands after use.

Surface Preparation:

- The temperature of the product, any surfaces, and the working area must be above 40°F (5°C). For best performance, apply sealant at 70°F (21°C). It is recommended to store cartridge at room temperature at least 24 hours before use during extreme cold weather conditions.
- Surfaces must be clean, dry, and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as old sealants, oils, soaps, and other surface treatments, etc.) must be removed from surfaces to which the sealant is intended to adhere to. Cleaning of surfaces should be done within 1 to 2 hours before sealant is to be applied, to allow surfaces to dry.
- For cleaning, a solvent-dampened, clean rag usually produces the desired result. Isopropyl alcohol (IPA) is a commonly used solvent that has shown to be effective with most non-porous substrates. When handling solvents, refer to manufacturer's SDS for information on handling, safety, and personal protective equipment.
- Use backer rod for gaps larger than ¼" D x ½" W. A width to depth ratio of 2:1 should be maintained.
- Architectural coatings, paints, and plastics should be cleaned with a solvent approved by the manufacturer of the product, or which does not harm or alter the finish.
- Since porous materials can absorb and retain moisture, it is important to confirm that substrates are dry prior to application of the sealant.

Masking: The use of masking tape is recommended, where appropriate, to ensure a neat job and to protect adjoining surfaces from over-application of sealant. Masking tape should be removed immediately after tooling the sealant and before the sealant begins to skin over (see Tooling/ Open time).

Application:

- Cut nozzle to obtain desired bead size and pierce inner foil seal.
- Using a caulking gun, apply sealant in a continuous operation applying a positive pressure adequate to properly fill and seal the seam, cavity, or joint.

Note: Clear Advanced Siliconized Acrylic Window & Door Sealant extrudes white and will turn clear as it dries

- Smooth or tool the sealant into gap within 5–10 minutes of application. Tool or strike the sealant with a concave tool, or water moistened, gloved finger applying light pressure to spread the material against the joint surfaces to ensure a void-free application. Allow for product shrinkage and do not over tool or tool too thin. Doing so will have a negative impact on sealant integrity and performance. Sealant skins over in approximately 30 minutes, depending on humidity and temperature.
- When tooling, use care not to spread the sealant over the face of the substrates adjacent to the joint or masking as Advanced Siliconized Acrylic Window & Door Sealant can be extremely difficult to remove from rough or porous substrates. Excess sealant should be cleaned from glass, metal, and plastic surfaces while still uncured, using a damp sponge. On porous surfaces, excess sealant should be allowed to progress through the initial cure or set-up. It should then be removed by abrasion or other mechanical means.
- In near-confined spaces, which limit overall access to the atmosphere, sealant will cure only from that surface which has access to the atmosphere. Do not encapsulate sealant between two non-porous substrates. This sealant is water-based and will not cure properly.

NOTE:

- Some materials that bleed plasticizers or oils can cause a discoloration on the surface of sealants. When sealing to or over items such as rubberized gaskets, bituminous based materials, butyl or oil-based products, oily woods, tapes, etc., compatibility testing prior to use is recommended.
- Advanced Siliconized Acrylic Window & Door Sealant is paintable in 30 minutes. Latex paint is recommended. If using oil-based/alkyd paint, wait 24 hours before painting. It is the responsibility of the user to conduct on-site testing to determine compatibility and adhesion. (NOTE: Paints are more rigid than sealants and may crack, wrinkle, or lose adhesion during sealant movement in extreme conditions).
- Users must evaluate GE branded products and make their own determination as to fitness of use in their specific application. It is the user's responsibility to test substrate compatibility, and adhesion of the cured sealant on a test joint before applying to the entire project.
- In addition to the guidelines provided in this datasheet, Henkel Corporation recommends designers and users of Advanced Siliconized Acrylic Sealant familiarize themselves with the latest editions of the following industry guidelines and best practices:

1.) ASTM C1193 Standard Guide for Use of Joint Sealants.

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STORAGE & DISPOSAL

DAMAGED BY FREEZING. Store in unopened containers in a cool, dry area away from heat and direct sunshine under standard conditions. Standard storage conditions are defined as 72 ± 4ºF (22 ± 2ºC) and < 50% relative humidity. Elevated temperatures or extreme cold temperatures will reduce shelf life. In cool or cold weather, store container at room temperature for at least 24 hours before using. Use an approved hazardous waste facility for disposal facility. Hardened material may be disposed of in the trash.

LABEL PRECAUTIONS

WARNING! UNCURED SEALANT IRRITATES EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

CAUTION! Contains ethylene glycol, mineral oil, and crystalline silica (white only). Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow.

FIRST AID: For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash thoroughly with soap and water. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting; call a physician or Poison Control Center immediately. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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

Refer to the 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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For Technical Assistance call : 1-877-607-7407 – Mon - Fri 9:00a – 4:00p ET
www.gesealants.com

Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care (Consumer Brands) and Adhesive Technologies.

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