

**4600™ Structural Adhesive Sealant**



**1. PRODUCT NAME:**

Geocel 4600™ Structural Adhesive Sealant

**2. MANUFACTURER:**

Geocel Products Group A Business Unit of The Sherwin-Williams Company (“Geocel Products Group”) Cleveland, OH 44115

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**3. PRODUCT DESCRIPTION:**

Geocel 4600™ Structural Adhesive Sealant provides a long-lasting waterproof seal on many common building substrates including roofing materials, glass, aluminum, fiber cement board, masonry, and wood. The heavy bodied viscosity of the product, makes it ideal for both vertical and horizontal applications.

**Product Benefits:**

- Flexible-Meets ASTM C 920, class 35
- UV resistant
- Applies in damp or dry conditions
- Paintable with latex-based paints

**Basic Uses: Interior & exterior applications**

- Most non-traffic bearing joints
- Primerless application to brick, concrete, metal, glass, treated and untreated wood, asphaltic materials, and vinyl
- Through-roof penetrations, flashings, gutters, solar panel installation
- Underdecking installation
- Windows and doors
- As a trim sealant for metal components

**Adheres to:** Wood, concrete, metal, glass, tile, brick, asphalt shingles, EPDM, primed TPO, primed PVC, and other common building substrates

**Composition and Materials:** Hybrid technology

**Grade:** Gun grade, non-sag consistency

**Primer:** Good primerless adhesion to many common building substrates. However, for joints where high movement is anticipated, the use of a primer is recommended. If primerless adhesion to a particular substrate is in question, a test application is recommended. Contact our Technical Service Department for further information.

**Packaging:** 10.1 fl oz cartridge

**Color:** Gray, white, black, tan, bronze, and limestone

**Limitations:**

- Do not use on traffic-bearing surfaces
- Do not use in areas where food is stored or processed
- Do not use for portable water applications

**4. INSTALLATION:**

**Joint Design:** The width of the joint should be a minimum of 4 times the anticipated movement. In joints up to 1/2" wide, the depth of the sealant should be equal to the width, but not less than 1/4". For larger joints and where the joint depth exceeds 5/16", use a polyethylene backer rod that is 25% larger than the joint opening. Install all joint applications per ASTM recommendations and guidelines. Joints must have a depth to width ratio of 1:2 (joint depth 1/2 of the width). To prevent three-point contact, a backer rod or bond breaker tape must be used to ensure proper joint movement and a weatherproof seal. Surface Preparation: Joint surfaces must be dry, clean, and free of all contamination. Glass, metal, and other non-porous surfaces must be free of any coatings and be wiped clean with solvent. Follow manufacturer's instructions for safe use. Precast panels using form-release agents other than polyethylene film must be sand blasted or mechanically abraded and blown or brushed free of dust.

**Joint Backing:** Joint depth should not exceed 3/8". An open cell backer rod should be used to control joint depth. In shallow joints, a bond breaker tape should be installed to prevent three-point contact.

**Application and Tooling:** Remove nozzle and puncture the inner foil seal repeatedly. Replace the nozzle and trim to between 1/4" – 3/8". Smaller openings can cause back pressure, resulting in leaks around the plunger and run-on out of the nozzle. Place cartridge in a conventional caulking gun and apply with steady pressure, filling joint completely. Tool into seams and cracks immediately after application

**Painting:** May be painted immediately after application with latex-based paints

**Cleaning:** Remove Geocel 4600 from gun and tools before it cures. This may be done by scraping or the use of a regional available cleaning solvent. Follow manufacturer's instructions for safe use. Cured materials may be removed by cutting with sharp tools or sandpapering.

**Storage Life:** One year

**Cautions:** CONTAINS CRYSTALLINE SILICA. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area.

**First Aid:** In case of eye contact, flush thoroughly with large amounts of water for 15 minutes and get medical attention.

For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

**Warning:** This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.

Viscosity	1,000,000 cps +/- 200,000 cps
Elongation (D412)	690%
Tensile Strength (D412)	180 psi
Tear Strength (D624)	60 pli
Shear Strength (D1002)	121 psi (on galv. Steel)
Shore A Hardness	40-45
Application Temperature	0°F to 140°F
Service Temperature	-40°F to 200°F

**5. AVAILABILITY AND COST:** Available from various construction material and industrial distributors. Cost and further technical data are available from your local Geocel Products Group representative or from our office.

**6. LIMITED WARRANTY:**

If when applied according to label directions this product fails to perform in accordance with its published literature, upon satisfactory evidence of product failure, and as your sole remedy, we will either replace the product at no cost or refund the original purchase price. Labor or costs associated with labor are not included. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, WHICH ARE ALL DISCLAIMED AND/OR LIMITED IN DURATION TO THE EXTENT PERMITTED BY LAW. WE SHALL NOT BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS) FROM ANY CAUSE WHATSOEVER AND SUCH DAMAGES ARE EXPRESSLY EXCLUDED. Some states do not allow the exclusion or limitation of incidental or consequential damages or how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**7. MAINTENANCE:**

No maintenance should be required.

**8. TECHNICAL SERVICES:**

Geocel Products Group representatives throughout the U.S. are available to provide technical assistance. Our in-house technical staff and laboratory facilities are equipped to respond to specific requests for further information and/or applications testing.

For additional information, visit us on the web at [www.GeocelUSA.com](http://www.GeocelUSA.com)

**THEORETICAL YIELD**

**Per 10.3 fl. oz. cartridge**

Joint Size	Linear Feet
1/4" x 1/4"	24.1
1/4" x 3/8"	16.0
1/4" x 1/2"	12.4
1/2" x 3/8"	8.4
1/2" x 1/2"	6.0
3/4" x 1/2"	4.0