



1. PRODUCT NAME:

Geocel S2® Solar Panel Roof Installation 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 S2® Solar Panel Roof Installation Sealant is a high performance, highly elastic tripolymer sealant for use in the installation of solar panels to various roof decks. Its tenacious adhesion to common roof substrates, even in less than perfect conditions, makes it ideal for through-roof penetrations, flashings, brackets, and other solar panel roof mounting systems. It remains flexible, creating a weatherproof seal.

Product Benefits:

- Will not crack
- Asphalt shingle compatible
- Exceptional flexibility
- Excellent adhesion to many roof surfaces, even when damp
- UV resistant
- Resealable, may be applied over itself
- Easily applied, non-stringing formulation

Basic Uses:

- Specifically designed for the solar panel market
- Seals penetrations, flashings, brackets, & other mounting systems
- Applies in damp, dirty, or oily conditions
- Remains flexible

Adheres to: Asphalt shingles, metal, aluminum, coated steel (Kynar 500® based finishes), tile, concrete, and other roofing substrates

Kynar 500® is a registered trademark of Arkema Inc. and is used under license.

Composition and Materials:

Geocel S2 Sealant is based on a proprietary formulation of polymers designed to provide optimum flexibility, adhesion, weather resistance, and durability. Because of the inherent flexibility of this material blend, the sealant does not contain plasticizers (added to many sealants to promote flexibility), which tend to migrate out of other sealants, causing hardening and shortening their useful life. Due to the mild solvent blend contained in the sealant, Geocel S2 is not a

flammable liquid according to NFPA liquid guidelines. It is weather and UV light resistant.

Grade: Gun grade, non-sag consistency

Primer: Not required on most surfaces. If primerless adhesion to a particular substrate is in question, a test application is recommended. Contact Geocel Products Group's Technical Service Department for further information.

Packaging: 10 fl. oz. cartridge.

Colors: Crystal Clear

Limitations:

- For exterior use only due to odor emitted during cure
- Do not use on traffic-bearing surfaces
- Do not use on extruded polystyrene insulating sheathing (Styrofoam, etc.)
- Do not use on acrylic skylight glazing surfaces
- Do not use for portable water applications
- Do not use in areas where food is processed or stored

4. INSTALLATION:

Follow solar panel manufacturer's installation instructions and all applicable International, National, State and Local Building Codes.

Joint Design: For best results, joints should be a minimum of 4 times greater than anticipated movement. Minimum recommended joint size is 1/4" x 1/4". Maximum joint size should be 1/2" x 3/8" in depth.

Surface Preparation: Priming is not required unless specified above. Joints should be basically clean and surface dry, although dampness from dew will not interfere with adhesion. Do not use xylene or MEK to clean joints or to remove surface coatings unless surface can be allowed to dry before application of sealant. If the joint is wet with solvent, the sealant will not adhere properly. Use of a dry rag or brush to remove dust, dirt, or other contaminants is recommended. Contamination from curing agents and form releases should be avoided. Contact Geocel Products Group's Technical Service Department or representative if such agents are involved.

Elongation: 1197% - Clear; 1000% - Colors

Tack Free: 2 hours

Cure: 4 days

Application and Tooling: Apply with conventional caulking equipment, filling joint completely. When temperature is below 40°F, application will be easier if sealant is warmed. When temperature of surface to be sealed exceeds 140°F, do not apply sealant until surface cools.

Painting: Sealant may be painted after 24 hours. If using a relatively inflexible paint, allow sealant to cure for 3 days

before painting. Sealant may be coated with any latex and most oil-based paints. Some paints may crack in dynamic joints. See paint manufacturer's specifications.

Cleaning: Remove Geocel S2 Sealant from gun and tools before it cures. This may be done by scraping and use of solvents such as MEK (lacquer thinner), xylene, Toluol or chlorinated solvents. Cured materials may be removed by cutting with sharp tools. Observe manufacturer's precautions when using toxic or flammable solvents.

Storage Life: 18 months

Warning: Harmful or fatal if swallowed. If swallowed, call a physician immediately. May be harmful if inhaled in an enclosed space. Use only in a well-ventilated area. Avoid prolonged skin contact. Combustible (during cure). **KEEP OUT OF REACH OF CHILDREN.**

5. AVAILABILITY AND COST: Colors may not be sold in California. Crystal Clear may be sold in non-SCAQMD California counties only. 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 for that portion of product that fails to perform in accordance with this limited warranty. 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. If the sealant is damaged, either remove bead and reseal with S2 Sealant or apply additional S2 Sealant over the damaged area.

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.

Per 10 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"	12.0
1/2" x 3/8"	8.4
1/2" X 1/2"	6.0
3/4" x 1/2"	4.0

For additional product information, refer to the product spec sheet located at www.GeocelUSA.com and/or application testing.

THEORETICAL YIELD