



Transportation  
Sealants & Adhesives

TECHNICAL  
DATA

# 2300<sup>®</sup> CONSTRUCTION

## TRIPOLYMER SEALANT

### 1. PRODUCT DESCRIPTION:

2300<sup>®</sup> Construction Tripolymer Sealant is a single component, high-performance elastomeric sealant for use in a wide variety of roofing, window, door, siding, trim, architectural metal, manufacturing, and general construction applications. The product has the following unique properties:

- **Asphalt compatible**
- **Exceptional elongation and flexibility**
- **Excellent adhesion to most building surfaces, even when damp**
- **Superior ultraviolet resistance**
- **Resealable, may be applied over itself**
- **Paintable**
- **No dirt pickup**
- **Easily applied, non-stringing formulation**
- **Available in crystal clear and colors**
- **Tools and cleans up easily**
- **Mildew resistant**
- **Product meets all state and federal VOC regulations**

#### Basic Uses:

- Most non-traffic bearing joints, including those where structural movement or stress is expected
- Primerless application to brick, concrete, stone, all metals, glass, treated and untreated wood, asphaltic materials, and vinyl
- Where ultraviolet-stable material is required
- Where a paintable sealant is required
- As a trim sealant for metal components

#### Composition and Materials:

2300 is based on a proprietary formulation of polymers designed to provide optimum flexibility, adhesion, weather resistance, and life expectancy. 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, 2300 is not a flammable liquid according to NFPA liquid guidelines. Its inherent weather and ultraviolet resistance, combined with its lasting flexibility, provide a life expectancy exceeding 50 years. Its clear formulation is literally clear as glass from the moment of application.

**Grade:** Gun grade consistency

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

**Packaging:** 10.3 fl. oz. cartridge and 29 fl. oz. cartridge. For other sizes, contact our Customer Support Center at 800-348-7615.

**Colors:** White, crystal clear, almond, gray, black, driftwood, tan, earthtone, terra, bronze, cedar, and brown. Additional colors may be available upon request. Contact our Customer Support Center at 800-348-7615.

**Limitations:** Not recommended for:

- Traffic-bearing surfaces
- Extruded polystyrene insulating sheathing (Styrofoam<sup>®</sup>, etc.)
- Acrylic skylight glazing surfaces
- Areas where food is processed or stored, unless sealant is cured until solvent dissipates
- Interior applications without long-term, high volume ventilation

### 2. TECHNICAL DATA: (See chart on back.)

### 3. INSTALLATION:

**Joint Design:** For optimum 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's Technical Service Department or representative if such agents are involved.

**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:** 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. A soap solution or a solvent such as xylene may be used as a lubricant for tooling. Do not allow tooling agents to contaminate open joints.

**Painting:** Sealant may be painted after 24 hours. If using a relatively inflexible paint, allow sealant to cure for 3 days before painting. 2300 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 2300 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.

**Availability and Cost:** Marketed throughout the U.S., Canada, and in select foreign markets. It is available from various construction material and industrial distributors. Cost and further technical data are available from your local Geocel representative or from Geocel's corporate offices.

#### 4. STORAGE LIFE: One year

**Warning:** *For Colors Only* - This product contains a chemical known to the state of California to cause cancer.

*For Clear and Colors* - 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. LIMITED WARRANTY:

Geocel Corporation warrants that the product is manufactured according to their published standards. The company guarantees for 5 years from the date of manufacture that 2300 Tripolymer Sealant will not crack due to normal expansion and contraction and that it will not lose its adhesion or cohesion. Geocel Corporation will, at its option, either refund the purchase price of, or provide replacement for, that portion of the 2300 which fails to perform in accordance with this warranty. Such refund or replacement will constitute the limit of Geocel's liability and obligation for any such failure. Geocel Corporation will not be liable or obligated otherwise for any loss or damage arising directly or indirectly from this product, or the use or failure thereof, whether based on breach of warranty or negligence.

#### 6. MAINTENANCE:

No maintenance should be required. If the sealant is damaged, either remove bead and reseal with 2300 or apply additional 2300 over the damaged area.

#### 7. TECHNICAL SERVICES:

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

TECHNICAL DATA	TEST METHOD	CLEAR	COLORS	Theoretical Yield	
				per 10.3 fl. oz. Cartridge	
				Joint Size	Linear Feet
Viscosity	Brookfield RVT-F Spindle Helipath Stand (100 sec., 77° F)	952 M cps	1120 M cps	1/4" x 1/4"	24.8
Extrusion	ASTM C 603-90 (modified)	.1284 s/ml	.1298 s/ml	1/4" x 3/8"	16.5
Elongation (Peak)	ASTM D 412	997%	994%	1/4" x 1/2"	12.4
				1/2" x 3/8"	8.7
				1/2" x 1/2"	6.2
Tensile Strength (Peak)	ASTM D 412 (modified)	311 psi	518 psi		
Adhesion					
Aluminum		24 P.L.I.	13 P.L.I.		
Mortar		21 P.L.I.	17 P.L.I.		
Glass		19 P.L.I.	20 P.L.I.		
Wood		23 P.L.I.	28 P.L.I.		
Vinyl		12 P.L.I.	11 P.L.I.		
Steel		14 P.L.I.	10 P.L.I.		
Kynar		18 P.L.I.	24 P.L.I.		
% Solids		62.5%	52.0%		
Tack Free		2 hours	2 hours		
Cure (1/4" x 1/4" bead)		5 days	6 days		

Service Temperature: -40° F to 140° F (-40° C to 60° C)  
Application Temperature: 0° F to 180° F (-18° C to 82° C)