Geocel®

Transportation
Sealants & Adhesives

TECHNICAL DATA

8125® CONSTRUCTION

ACETOXY SILICONE

1. PRODUCT DESCRIPTION:

8125 Acetoxy Cure Silicone Sealant is a high modulus, one component sealant. It has excellent adhesion to non-porous surfaces and is able to withstand ±25% joint movement.

It can be used for sealing or adhering:

- **Glass**
- **Metal**
- **Wood**
- **Ceramic**
- **Vinyl**
- **Plastic**
- **And many painted surfaces**

Basic Uses:

- Glazing joints
- Weather sealing
- Top sealing in glazing
- Sealing around worktops
- Waterproofing between glass and aluminum
- General industrial uses
- Hygiene seals in refrigeration and food preparation areas

Composition and Materials:
8125 is 100% Silicone. It has a life expectancy of 30 years.

Grade: Gun grade consistency

Primer: Not required on most building materials.

Packaging: 10.3 fl. oz. cartridge

Colors: Clear, white, and black

Applicable Standards: Meets specifications ASTM C 920-95 Type S Grade NS Class 25. TT-S-00230 C Type II Class A, TT-S-001543 A Class A. BS 5889 (UK), DIN 18540 (Germany), and JIS A5757 (Japan). FDA/USDA and NSF approved under food additive regulation 121.2514.

Limitations:

- Exterior, below grade use
- Glazing of insulated glass units sealed with two-part silicone secondary seals
- Continuous water immersion
- Applications over tar, asphalt, or materials that bleed oils, plasticizers, or solvents
- Marble substrates
- Applications in airtight enclosures as the sealant requires atmospheric moisture to cure
- Applications with materials that may react to acetic acid like copper, acrylic, and plastic
- Horizontal traffic joints

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

3. INSTALLATION:

Surface Preparation: Joints should be basically clean and surface dry. Do not use Xylol 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.

Application and Tooling:
Surface Preparation: Porous surfaces should be primed. Clean loose particles from surface. Surfaces must be clean, dry, and dirt free.

Joint Design: Silicone sealant should have a ratio of approximately twice the joint width to depth. The sealant depth should not be less than 3/16” (4.8 mm, Minimum) and not greater than 1/2” (12.7 mm, Maximum).

Width-to-Depth Recommendations (in inches):

Width	1/4	3/8	1/2	5/8	3/4	7/8	1
Depth	3/16	3/16	1/4	3/8	3/8	3/8	1/2

Joint Backing: Use polyethelyne backing material to maintain proper joint depth.

Application and Tooling: Apply with conventional caulking equipment, filling joint completely. Warm tube if temperature is below 40 F for easier gunning. Dry tool with light pressure immediately after applying. Tooling time is 7 to 15 minutes. Tack free in 1 hour. Cures completely in 5 to 7 days.

Painting: 8125 Silicone Sealant is 100% silicone and is not paintable.

Cleaning: Remove sealant from gun and tools before it cures using solvents such as MEK (lacquer thinner), Xylol, Toluol, or Chlorinated solvents. Cured sealant may be removed by cutting with sharp tools. Observe manufacturer's precautions when using toxic or flammable solvents.

4. STORAGE LIFE: One year

Availability and Cost: Marketed throughout the U.S., 8125 Acetoxcy Silicone is available from various distributors. Costs and further technical data are available from your local Geocel representative or from Geocel's corporate offices.

Warning: Avoid repeated or prolonged contact with skin or eyes, especially to cuts or breaks in the skin. Do not take internally. IRRITANT (during cure) USE IN WELL VENTILATED AREAS. 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 five years from the date of manufacture that 8125 Acetoxy Silicone 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 8125 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, remove the bead and reseal.

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.

Theoretical Yield per Cartridge

Joint Size	Linear Feet
1/4” x 1/4”	24.8
1/4” x 3/8”	16.5
1/4” x 1/2”	12.4
1/2” x 3/8”	8.7
1/2” x 1/2”	6.2
3/4” x 1/2”	4.1

Technical Data Averages	RESULTS	TEST METHOD
Stain	C 510	Pass
Extrusion Rate	C 603	Pass
Rheological Flow (Slump)	C 639	0
Hardness	C 661	27
Tack Free	C 679	15 minutes pass
Cyclic Movement	C 719	±25%
Heat Aging Weight Loss	C 792	Less than10%
Accelerated Weathering	C 793	Pass
Adhesion Peel	C 794	Glass, Aluminum - 7-10 PLI

Application Temperature
-35 F to +160 F (-37 C to +71 C)
Service Temperature
-80 F to +400 F (-62 C to +204 C)

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