



Transportation
Sealants & Adhesives

TECHNICAL
DATA

8150[®] CONSTRUCTION

NEUTRAL CURE SILICONE

1. PRODUCT DESCRIPTION:

8150 is a neutral cure, high performance, low modulus, one component silicone with excellent adhesion to both porous and non-porous surfaces. It provides joint movement capability of $\pm 50\%$ with superior weatherability. Ideal for a variety of construction and industrial applications.

Basic Uses:

- Glazing joints
- Building, glazing and industrial sealing applications
- Perimeter sealing around all types of frames, including PVC building products
- Sealing construction joints in brickwork, concrete, and stone subject to movement up to $\pm 50\%$
- Sealing between precast concrete panels
- Sealing applications for transportation vehicles as well as shipping and storage containers
- AAMA approved for a back bedding, glazing compound

Composition and Materials:

8150 is a neutral cure (oxime), one component, low modulus silicone featuring a non-corrosive curing mechanism with excellent movement capabilities ($\pm 50\%$). Its exceptional unprimed adhesion to many common substrates and high resistance to ultraviolet light, ozone, moisture, and extreme temperature variations results in a life expectancy of 30 years. Dry tools easily to a smooth, attractive finish and has good tear resistance. The rubberlike properties are maintained throughout its lifetime.

Grade: Gun grade consistency

Primer: Not generally required

Packaging: 10.3 fl. oz. cartridge

Applicable Standards: Meets specifications AAMA 802.3-92 Type II Back Bedding Compound, 803.3-92 Type I Narrow Joint Sealer, 805.2-92 Bonding Type Bedding Compound. ASTM C 920-95 Type S Grade NS Class 50. TT-S-00230 C Type II Class A, TT-S-001543 A Class A. BS 5889 (UK), DIN 18540 (Germany), and JIS A5757 (Japan). MIL-A-46196A.

Colors: Clear and white

Application Temperature: -35° F to +160° F
(-37° C to +71° C)

Service Temperature: -80° F to +400° F
(-62° C to +205° C)

Limitations:

- Exterior, below grade use
- 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
- Horizontal traffic joints

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

3. INSTALLATION:

Surface Preparation: Clean loose particles from surface. Surfaces must be clean, dry, and totally dust free.

Joint Design: Silicone sealant should have a ratio of approximately twice the joint width to sealant depth. The sealant depth should be not less than 3/16" (4.8 mm) minimum and not greater than 1/2" (12.7mm) 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 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 (4° C) for easier gunning. Dry tool with light pressure immediately after applying. Tooling time is 4 to 8 minutes. Tack free in 1 hour. Cures completely in 5 to 7 days.

Painting: 8150 Neutral Cure 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:

Storage Life: One year

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. KEEP OUT OF REACH OF CHILDREN.

Availability and Cost: 8150 is marketed throughout the United States, Canada, and in select foreign markets. Costs and further technical data are available from your local Geocel representative or from Geocel's corporate offices.

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 8150 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 8150 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 United States 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
8150 Neutral Cure Silicone**

	RESULTS	TEST METHOD
Staining and Color Change	Pass	C 510
Extrusion Rate	Pass	C 603
Rheological Flow (Slump)	0	C 639
Hardness	25	C 661
Tack Free Minutes	60	C 679
Cyclic Movement	±50%	C 719
Heat Aging Weight Loss	Less than 10%	C 792
Accelerated Weathering	Pass	C 793
Adhesion Peel Glass, Aluminum	7-10 pli	C 794