



Adhesive/Sealant – NS (Non-Slump)

Technical/Performance Data Sheet

Polyether Technology

CSI Sect Nr 07 92 13

CLIMATE, Incorporated

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Product Description

CLIMATE™ Adhesive is a moisture-curing, polyether structural adhesive designed for reinforcement of light-frame wood buildings. It can be used in damp, dry, or cold field conditions and cures down to 32 degrees F.

CLIMATE™ Adhesive is 100% solids, is solvent-free/non-toxic, isocyanate-free, and contains no carcinogenic materials. This adhesive will not discolor when exposed to UV light and cannot “outgas” or bubble on damp surfaces (in contrast to urethane materials).

CLIMATE™ Adhesive is a non-slump adhesive that can be used in vertical applications such as shear walls, roof-to-wall, “bird mouth” connections, roof rafter sheathing, sub-floor bonding, and many other wood framing applications.

CLIMATE™ Adhesive offers excellent adhesion to masonry, OSB board, glass, metal, gypsum board, FRP, EPS, PVC, and other engineering plastics.

Because of its extraordinary elasticity, **CLIMATE™ Adhesive** can be used in many joint-sealing and gap-filling applications in roofing or general construction.

Applicable Performance Standards

- ASTM C920, Type S, Grade NS, Class 50 Uses NT, T1, M, G, A, & O
- ASTM E84, Class A
- ASTM D4586
- Federal Specification TT-S-00230-C Type II, Class B
- Corps of Engineers CRD-C-541, Type II, Class B
- Canadian Standards Board CAN 19, 13-M82

Regulatory Compliance

- Conforms to OTC Rule for Sealants and Caulks

- Meets Requirements of California Regulations: Proposition 65, CARB, BAAQMD, and SCAQMD
- FEMA P-695 - seismic certification
- APA AFG-01 - floor construction standard
- Conforms to USDA Requirements for Non-food Contact

Advantages

- Solvent free/non-toxic
- 100% solids, will not shrink
- Non-slump, applies vertically and overhead
- 20-minute skin over
- No outgassing on damp surfaces
- Good color stability, will not suntan
- Paintable within 24 hours (see limitations)
- Gun-grade, no special tools or mixing required
- Application at temperatures as low as 32°F (0°C)
- Made in the USA – ISO 9001:2015 certified

Colors

Gray

*Color-matching in batch-quantity only

Packaging

- 20 oz. (600 ml) sausage
 - 12 sausages/case, 12 cases/mini-skid, 60 cases/pallet

Green Standards

LEED 2.2 for New Construction and Major Renovations

Low-Emitting Materials (Section 4.1): 1 Point

NAHB Model Green Home Building Guidelines: 5 Global Impact Points

VOC Content: less than 17 grams/liter ASTM D2369 EPA Method 24 (tested at 240°F/115°C)

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Compatible Substrates*
EPDM and SBS Mod Bit
Asphalt Shingles
Aluminum and Galvanized Metal
Stainless Steel
Engineered Plastics, PVC
Glass
Fiberglass FRP
Wood
Block and Brick
EPS Foam
Concrete and Stone
EIFS, Stucco

*Test and evaluate to ensure adequate adhesion

Typical Physical Properties		
Gun Grade	Zero Slump	
Viscosity	1,200,000 cp +/- 400,000 cp	Brookfield RVF TF Spindle, 4 RPM, 73°F (23°C)
Density	11.94 lbs. per gallon	ASTM D1475
Tack Free Time	30 min +/- 10 min	+/- 5% R.H.
Elongation at Break	900 – 1000%	ASTM D412
Hardness at Shore A	40	ASTM C661
Tensile Strength	250 psi	ASTM D412
Shear Strength	250 – 300 psi	ASTM D1002
Low temp. flex	Pass -15°F (-26°C) 1/4-inch mandrel	ASTM D522
Shrinkage	No visible shrinkage after 14 days	ASTM D522
Service Temperature	-40°F to 200°F (-40°C to 93°C)	

Application Guidelines:

Storage

Store original, unopened containers in a cool, dry area. Protect unopened containers from water, heat, and direct sunlight. Elevated temperatures will reduce shelf life; lower temperatures may extend it. **CLIMATE™ Adhesive** will not freeze.

Shelf Life

Two years from date of manufacture when stored at 70°F/21°C with 50% relative humidity. High temperature and high relative humidity may significantly reduce shelf life; low temperature and relative humidity may prolong shelf life.

Application Instructions

Where relevant, remove all dirt, oil, loose paint, frost, and other contamination from all working surfaces with alcohol. DO NOT USE petroleum solvents such as mineral spirits or xylene. Maintain **CLIMATE™ Adhesive** at room temperature before applying to ensure gunning ease. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant in a smooth, continuous, round ¼" bead. If tooling is needed, do so within fifteen minutes of application. See field application videos under "Library" at www.climateadhesive.com.

Inspection of squeeze-out verifies **CLIMATE™ Adhesive** bond with its blacklight-responsive filler.

Caution

Avoid prolonged skin contact. Uncured adhesive irritates eyes. In case of eye contact, immediately flush with water. Call a physician. Please refer to the SDS for first aid information. See www.climateadhesive.com for most current SDS.

KEEP OUT OF REACH OF CHILDREN.