

CHEM LINK Products LLC

Telephone: 800-826-1681
Fax: 269-679-4448
353 East Lyons
Schoolcraft, MI 49087
www.chemlink.com

Product Description

Clear is a moisture curing, polyether sealant designed for application in damp, dry, or cold climates. **Clear** is solvent free and contains no isocyanates. **Clear** will not shrink upon curing, will not discolor when exposed to UV light, and can not "out-gas," or bubble, on damp surfaces as often occurs with urethane sealants. **Clear** has resilient "elastomeric" properties and excellent adhesion to most construction materials. **Clear** is capable of joint movement in excess of 25% in both compression and extension. **Clear** can be used effectively in many difficult construction site conditions, cures in wet or dry climate conditions and at low temperatures (30°F / -1°C).

Applicable Performance Standards

- ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A, and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19, 13-M82

Regulatory Compliance

- Conforms to OTC Rule for Sealants and Caulks
- Meets requirements of California Regs: CARB and SCAQMD
- Conforms to California Proposition 65
- Conforms to USDA Requirements for Non-food Contact

Green Standards:

- LEED New Construction and Major Renovations: Low Emitting Materials (Section 4.1) eligible for 1 Point
- NAHB Model Green Home Building Guidelines: 5 Global Impact Points
- VOC Content: less than 14 grams / liter ASTM D2369, EPA Method 24 (includes water tested at 240°F)



Advantages

- Solvent free, 100% solids, will not shrink
- Non-slump, applies vertically and overhead
- 20 minute skin over, will not pick up dirt
- No outgassing on damp surfaces
- Very good color stability, will not suntan
- Paintable within 24 hours* see limitations
- Gun grade, no special tools or mixing required
- Can be applied at temperatures as low as 30°F (-1°C)

Packaging

- **10.1 oz (300 ml)**
24 cartridges/carton, 45 cartons/pallet
- **20 oz (600 ml)**
12 sausages/carton, 45 cartons/pallet
- **5 gallon pails and 50 gallon drums available by special order**

Joint Preparation

Joint surfaces should be clean, dry and free from all contamination including: dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.

Joint Design

Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). Control the depth of the sealant by using a polyethylene backer rod that is 25% larger than the joint opening at standard temperature. To prevent three-point adhesion use a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal.

Where the joint configuration will not permit a backer rod, CHEM LINK Products recommends that an alternative bond breaker be used.

Joint Width Inches (mm)	Joint Depth Inches (mm)
1/4 - 1/2 (6-13)	1/4 (6)
1/2 - 3/4 (13-19)	1/4 - 3/8 (6-10)
3/4 - 1 (19-25)	3/8 - 1/2 (10-13)
1 - 2 (25-50)	1/2 (13)

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

***Test and evaluate to ensure adequate adhesion.**

Typical Uncured Properties		
Gun Grade	Zero Slump	ASTM C 697
Viscosity	1,350,000 cP +/- 250,000	Brookfield RVF TF spindle, 4 RPM, 73°F (23°C)
Tack Free Time	100 +/- 10 minutes	ASTM C-679
Odor	Mild Mint Smell	

Typical Cured Properties		
Elongation at Break	400% +/- 75	ASTM D-412
Hardness Shore A	7 +/- 2	ASTM C-661
Shear Strength	200 +/- 10 PSI	ASTM D-1002
Low temperature flex	Minus 10°F (-23°C) pass ¼ inch mandrel	ASTM D-816
Shrinkage	No measurable shrinkage after 14 days	
Service Temperature	-40°F to 200°F (-40°C to 94°C) continuous service	
Shelf Life	Cartridges and sausages: 1 year Pails: 6 months	

Basic Uses
Expansion Joints
Pre-cast Concrete
Block and Masonry
Curtain Walls
Window and Door Frames
Siding
Parapets
Cove Joints
Transportation
Weather Sealing

Application Guidelines

Concrete

Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. On green concrete, remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying **Clear**. Install an appropriate backer rod to avoid three-point bonding.

Metal

Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.*

**CHEM LINK recommends that coated substrates be tested for adhesion prior to starting a project. Please contact Technical Services for specific application guidelines and recommendations.*

Wood

Wood should be clean, sound and dry prior to sealant application. Allow treated wood to weather for six months prior to application. Remove all coatings and paint (or test for compatibility) to ensure proper bonding. Do not use on fire retardant lumber.

Priming

In most instances **Clear** will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. CHEM LINK Products recommends a primer be used for any application where prolonged immersion is anticipated.

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. **Clear** will not freeze.

Shelf Life

One year from date of manufacture when stored in normal environments. High temperature and high relative humidity may significantly reduce shelf life. Pails and special orders have a shelf life of six months.

Clean-Up

Wet sealant can be removed using a solvent such as alcohol. Cured **Clear** can be removed by abrading or scraping the substrate.

Application Instructions

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 **Clear** at room temperature before applying to ensure easy gunning and leveling. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application.

Caution

Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician. Please refer to the MSDS for First Aid information. Most current MSDS can be found at www.chemlink.com.

KEEP OUT OF REACH OF CHILDREN.

Limitations

- In areas where prolonged chemical exposure is anticipated, contact Technical Services for recommendations.
- Allow treated wood to "cure" for six months prior to application per APA guidelines.
- Do not use in areas subject to continuous immersion.
- Do not store in elevated temperatures.
- Remove all coatings and sealers before application.
- Do not apply at temperatures below 30°F (-2°C).
- Test and evaluate all paints before applying. Alkyd and oil based paints may dry slowly.



CHEM LINK[®]
Advanced Architectural Products
Contractor Driven

**A Complete Product Line of
Adhesives, Sealants and Waterproofing**

- High Performance
- ZERO Solvents
- Odor FREE
- Non Flammable
- Non Toxic
- Non Polluting
- LEED Eligible

Contractor Hot Line
800-826-1681
www.chemlink.com

Notes:

Read and ensure that the most up-to-date MSDS and technical guidelines are being followed. Proper use and application are the responsibility of the applicator. Direct any questions to Technical Services at 800-826-1681 prior to starting the project.

IMPORTANT NOTICE

Except where prohibited by law, CHEM LINK Products makes no warranties, expressed or implied, statutory or otherwise, including but not limited to, any implied condition or warranty of merchantability or fitness for a particular purpose. User is responsible for determining whether this CHEM LINK Products material is fit for a particular purpose and suitable for user's method of application.

LIMITATIONS OF REMEDIES AND LIABILITY

If this CHEM LINK Products material is proved to be defective, the exclusive remedy at CHEM LINK Products' option shall be to refund the purchase price or to repair or replace the defective CHEM LINK Products material. CHEM LINK Products shall not otherwise be liable for loss of damages, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including negligence, warranty or strict liability.

CHEM LINK[®]
Advanced Architectural Products
Contractor Driven

Contractor Hot Line

800-826-1681

www.chemlink.com