

**Technical Data Guide**

**Polyether Technology**

**CSI Section No. 07 92 13**

**Chem Link Inc.**

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Last Revision: 09/14/09

**Product Description**

**DuraLink** is an extremely elastic moisture curing sealant designed for use in metal architecture, curtain wall construction and joints subject to movement. **DuraLink's** adhesion to difficult surfaces permits its use on anodized metal, and coatings such as Kynar 500® PVDF. **DuraLink** will not stain limestone, marble, or other absorbent stone substrates. **DuraLink's** unique polyether chemistry eliminates outgassing on green concrete and "suntanning" or discoloration after exposure to ultraviolet light.

**Applicable Performance Standards**

- ASTM C-920, Type S, Grade NS, Class 50, 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
- SWR Institute Validated (Sealant Waterproofing and Restoration)
- AAMA 802.3-08 Type II, AAMA 803.3-08 Type I, and AAMA 805.2-08 Group C.

**Regulatory Compliance**

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

**Green Standards**

- LEED 2009 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 at 240° F: less than 19 grams/liter (including water), ASTM D2369, EPA Method 24



**Advantages**

- Bonds to Kynar 500® PVDF coated metal
- Solvent free, 100% solids will not shrink
- Non-slump, applies vertically and overhead
- 30 minute skin over, no dirt pick up
- No outgassing on damp surfaces
- Color stability, will not suntan
- Paintable within 24 hours (See limitations)
- +/- 50 joint movement

Colors		
Bronze	Dark Bronze	Black
Forest Green	Stone	Gray
Terra Cotta	Aluminum	Limestone
Tan	Almond	White

\* Color matching is available in batch quantity only

**Packaging**

- **10.1 oz (300 ml)**  
24 cartridges/carton, 45 cartons/pallet
- **20 oz (825 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 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)

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

Typical Uncured Properties	
Gun Grade	Zero Slump ASTM C 697
Viscosity	750,000+ cps Brookfield RVF, TF spindle, 4 RPM, 73° F
Tack Free Time	35 minutes - ASTM C-679
Odor	Mild Mint Smell

Typical Cured Properties		
Elongation at Break	750 - 800%	ASTM D-412
Hardness Shore A	20 +/- 3	ASTM C-661
Shear Strength	150 PSI	ASTM D-1002
Tensile Strength	250 - 300 PSI	ASTM D-2370
Low Temperature Flex	Minus 10° F pass ¼ inch mandrel	ASTM D-816
Shrinkage	No measurable shrinkage after 14 days	
Service Temperature	Minus 40° F to 200° F continuous service	
Shelf Life	Cartridges: 1 year Sausages: 1 year Pails: 3 months	

Compatible Substrates*
Kynar 500® PVDF Coated Metal
Galvanized Metal
Aluminum
Engineered Plastics, PVC
Glass
Fiberglass FRP
EPS Foam
EPDM and SBS Mod Bit
Block and Brick
Concrete and Stone

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

## 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 **DuraLink**. 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 **DuraLink** 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 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. **DuraLink** 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 three months.

## 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 **DuraLink** 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. Do not use on Hypalon membranes. On TPO, use Chem Link TPO primer. On smooth APP, torch apply a granulated APP target piece around penetration(s) before installing **ChemCurbs**. Do not prime bonding surfaces with asphalt primer! Do not use asphalt cement as a "night sealant."

### Clean-Up

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

### 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.chemlinkinc.com](http://www.chemlinkinc.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.
- Test and evaluate all paints before applying. Alkyd and oil based paints may dry slowly.
- Do not use on TPO without Chem Link TPO primer.

