

Technical Data Sheet

Polyether Technology

CSI Section No. 07 92 13

CHEM LINK

Construction & Maintenance

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Product Description

NovaLink SL is a self-leveling, moisture curing sealant, designed for application on horizontal joints in concrete construction such as driveways, sidewalks, plaza decks, balconies, stairwells, parking structures, roof decks, and surrounding fountains and swimming pools. **NovaLink SL** cures rapidly to a solid rubber seal that can accommodate 25% joint movement. Its unique polyether cure chemistry allows **NovaLink SL** to be installed on damp concrete or in damp weather conditions without "outgassing" or forming CO₂ bubbles, as urethane sealants often do. Its excellent self leveling properties and smooth finish allow **NovaLink SL** to be installed without tooling. The elimination of masking tape and tooling results in a significant reduction in labor. **NovaLink SL** is solvent free and will not shrink. Its excellent adhesion to clean masonry or concrete allows it to be installed without a primer in most joints smaller than 1/2 inch wide.

Applicable Performance Standards

- ASTM C920, Type S, Grade P, Class 25, Uses T₂, M, & O
- Federal Specification TT-S-00230-C Type I, Class B
- Corps of Engineers CRD-C-541, Type I, Class B
- Canadian Standards Board CAN 19, 13-M82

Regulatory Compliance

- Conforms to OTC Rule for Sealants
- Meets requirements of California Regs: CARB and SCAQMD
- This product does not contain cancer causing chemicals listed in California Proposition 65.
- Conforms to USDA Requirements for Non-food Contact

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 27 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)



Advantages

- Solvent free, 100% solids will not shrink
- 30 minute skin over
- No outgassing on damp surfaces
- Color stability, will not suntan
- Paintable within 24 hours (See limitations)
- +/- 25% joint movement
- Made in the USA - ISO 9001:2015 certified

Colors

Stone, Gray, Black & White

* Color matching is available in batch quantity only

Packaging

- **10.1 oz (300 ml)**
24 cartridges/carton, 45 cartons/pallet
- **20 oz (600 ml)**
12 sausages/carton, 40 cartons/pallet
- **28 oz (825 ml)**
12 cartridges/carton, 40 cartons/pallet
- **2 Liter Pouch - 68 oz (2011 ml)**
4 pouches/carton, 45 cartons/pallet
- **2 and 5 gallon pails or 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)

CHEM LINK recommends an appropriate substrate primer to be used on high moving joints or dissimilar substrates which require increased adhesion properties.

Basic Uses
Expansion Joints
Masonry Pavers
Block and Masonry Repair
Patios
Walkways
Driveways
Decks - Concrete

Typical Physical Properties

Gun Grade	Self-Leveling	ASTM 679
Viscosity	30,000 cp +/- 15,000 cp	Brookfield RVF TC Spindle, 10 RPM, 73°F (23°C)
Density	8.9 +/- 0.2 lbs per gallon	ASTM D1475
Tack Free Time	30 +/- 15 min	45 +/- 5 % R.H.
Elongation at Break	300%	ASTM D412
Hardness Shore A	15	ASTM D2240
Tensile Strength	135 psi	ASTM D412
Low temp. flex	Pass -15°F (-26°C) 1/4 inch mandrel	ASTM D522
Shrinkage	No visible shrinkage after 14 days	
Service Temperature	-40°F to 200°F (-40°C to 93°C)	

Compatible Substrates*

Concrete
Block and Brick
Stone
Masonry
Aged Asphalt
Wood
Aluminum and Galvanized Metal

**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 **NovaLink SL**. Install an appropriate backer rod to avoid three-point bonding.

Asphalt

Allow asphalt to cure for a minimum of six months prior to application. Clean and remove all oil residue prior to using **NovaLink SL**. Remove any residual contamination by mechanical abrasion, sand blasting or power washing.

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 **NovaLink SL** 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 or sealing dynamic joints.

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. **NovaLink SL** will not freeze.

Shelf Life

Cartridges have a twelve month shelf life 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.

Pails have a shelf life of six 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 **NovaLink SL** 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.

Clean-Up

Wet sealant can be removed using a solvent such as alcohol. Cured **NovaLink SL** 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 SDS for first aid information.

See www.chemlink.com for most current SDS .

KEEP OUT OF REACH OF CHILDREN.

Limitations

- For light colored product, UV light will prevent discoloration
- In areas where prolonged chemical exposure is anticipated, contact Technical Services for recommendations. 800-826-1681
- 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.
- Allow asphalt to cure a minimum of six months before applying **NovaLink SL**
- Remove all coatings and sealers before application.
- Please contact customer service for application guidelines with temperatures below 35°F (2°C).
- Test and evaluate all paints before application. Polyurethane and oil based paints may dry slowly.



All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage. Visit www.chemlink.com for the Safety Data Sheet, Technical Data Guides and full warranty for this product.

LIMITED WARRANTY: **CHEM LINK** warrants this product's performance, provided it is properly stored and applied within 1 year. If this **CHEM LINK** material is proved to be defective, return remaining product and purchase receipt for refund or replacement of product exclusive of labor or cost of labor. This is the sole and exclusive remedy for defects or failure of this product. User must read and follow the direction of the current Technical Data Guide and SDS prior to product use. User determines suitability of product for intended use and assumes all risks. Manufacturer shall not be liable for damages (including consequential or incidental damages) in excess of the purchase price, except where such exclusion or limitation is prohibited by state law. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; except for the above express warranty given by manufacturer, the product is sold with all faults. **CHEM LINK** SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. This warranty gives you specific legal rights, and you may also have other rights in the U.S. which vary from state to state. For warranty claim information, call 800-826-1681.