

Technical Data Sheet

Neutral Cure Silicone

CSI Section No. 07 92 13

CHEM LINK

Construction & Maintenance

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www.chemlink.com

Product Description

MetaLink is a durable, moisture cure, RTV silicone sealant that reacts with low odor and a non-corrosive neutral cure chemistry. **MetaLink** is specifically formulated for applications on metal roofs, gutters, downspouts, and other metal architectural surfaces such as walls, windows, doors and fixtures. It can also be used for agricultural storage facilities and buildings. High adhesion to metal and other dissimilar substrates recommend **MetaLink** for sealing transportation equipment such as truck trailers, overseas containers and recreation vehicles. **MetaLink** bonds to aluminum, steel, and copper and delivers exceptional adhesion to Kynar 500® PVDF and Tedlar® PVF. **MetaLink** is also effective when applied between metal and non-metal materials such as masonry, glass and engineering plastics such as polycarbonate, vinyl (PVC), fiberglass (FRP), and acrylic.

MetaLink is available in a wide range of colors to match contemporary tastes in decorative metal roof and siding products.

MetaLink's low odor, non-corrosive, and neutral cure chemistry will not damage unprotected metals. With 50% joint movement, **MetaLink** is highly elastic, so it resists cracking, even through extreme weather cycles.

MetaLink is safe—it contains no solvents or isocyanates and meets the strictest North American VOC-standards

Applicable Performance Standards

- ASTM C920, Type S, Grade NS, Class 50, Uses NT, T₂, M, G, A & O
- 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
- Meets requirements of California Regs: CARB, BAAQMD 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 Green Home Building Guidelines: 5 Global Impact Points
- VOC Content: less than 33 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)

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Advantages

- 50% joint movement
- Neutral cure. Will not promote corrosion of metal
- Bonds to Kynar 500® PVDF coated metal
- Solvent free, 100% solids will not shrink
- Non-slump, applies vertically and overhead
- 10 minute skin over
- Color stability, will not suntan

Colors

Please refer to applied color board or chemlink.com for a full list of roofing and siding colors. Special colors are available upon request.

Packaging

- 5 oz Squeeze Tube (150 ml)
Available by special order
36 tubes/carton, 40 cartons/pallet
- 10.1 oz (300 ml) cartridge
12 cartridges/carton, 105 cartons/pallet
- 20 oz (600 ml) sausage by special order
12 sausages/carton, 45 cartons/pallet
- 2 and 5 gallon pails or 50 gallon drums
available by special order



Compatible Substrates*
Kynar 500® PVDF Coated Metal
Galvanized Metal
Aluminum
Copper
Glass
Fiberglass (FRP)
Tedlar® PVF
Engineered Plastics (PVC)
EPS Foam

**Test and evaluate to ensure adequate adhesion.*

Basic Uses
Metal Roofing
Gutters
Window and door frames
Expansion joints
Siding
Parapets
Cove Joints
Transportation
Weather Sealing

Typical Uncured Properties		
Gun Grade	Zero Slump	
Viscosity	550,000 cp +/- 150,000 cp	Brookfield RVF TF Spindle, 4 RPM, 73°F (23°C)
Density	8.3 lbs per gallon	ASTM D1475

Typical Cured Properties		
Elongation at Break	600%	ASTM D412
Hardness Shore A	10 +/-3	ASTM C661
Tensile Strength	135 psi	ASTM D412
Shear Strength	75 +/-5 psi	ASTM D1002
Low temp. flex	Pass -10°F (-23°C) 1/4 inch mandrel	ASTM D816
Shrinkage	No visible shrinkage after 14 days	
Service Temperature	-80°F to 400°F (-62°C to 204°C)	

Typical Peel Values ASTM C794	
Aluminum	17 pli cohesive failure
Concrete	16 pli cohesive failure
Glass	19 pli cohesive failure
Copper	9.5 pli cohesive failure
Kynar	19 pli cohesive failure
Steel	18 pli cohesive failure

Application Guidelines:

Glass

Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. Remove all release agents and old caulk. Dry all visible and standing water prior to applying **MetaLink**.

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.*

Priming

In most instances **MetaLink** 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.

Clean-Up

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

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. **MetaLink** will not freeze.

Shelf Life

Twelve months 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 **MetaLink** at room temperature before applying to ensure easy gunning and tooling. 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 SDS for first aid information.

See www.chemlink.com for most current SDS .

KEEP OUT OF REACH OF CHILDREN.

Limitations

- In areas where prolonged chemical exposure is anticipated, contact Technical Services for recommendations.
- Do not use in areas subject to continuous immersion.
- Do not store in elevated temperatures.
- Remove all coatings and sealers before application.
- Please contact customer service for application guidelines with temperatures below 32°F (0°C).
- Do not use on surfaces to be painted.
- Staining may occur on limestone and porous substrates, test and evaluate before application.



NOTES:



Contractor Hot Line

800-826-1681

www.chemlink.com



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.