



Technical Data Guide

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CHEM LINK Products, LLC

Distributed by: [BEST MATERIALS® LLC](#)
Ph: 800-474-7570, 602-272-8128
www.BestMaterials.com
Email: Sales@BestMaterials.com

Product Description

MetaLink is a superior, high-performance silicone adhesive/sealant, specifically formulated for applications on metal roofs, gutters, downspouts, and other metal architectural surfaces such as walls, windows, doors and fixtures. **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 25% 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 meet's the strictest North American VOC-standards

Applicable Performance Standards

- ASTM C920, Type S, Grade NS, Class 25, Uses NT, T₂, M, G, A & 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
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to 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 33 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)



Advantages

- 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

White	Black	Translucent	Regal Blue	Regal Red
Terra Red	City Scape	Colonial Red	Mustang Brown	Hartford Green
Slate Gray	Sierra Tan	Shake Gray	Almond	Dark Bronze
Deep Charcoal	Mansard Brown	Buckskin	Medium Bronze	Charcoal Gray
Terra Cotta	Silver Metallic	Champagne Metallic	Copper Penny	Forest Green
Caramel	* Additional colors are available upon special request.			

Packaging

- **5 oz Squeeze Tube (150 ml) Silver Metallic Only**
Other colors 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

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)

Compatible Substrates*	Basic Uses
Kynar 500® PVDF Coated Metal	Metal Roofing
Galvanized Metal	Gutters
Aluminum	Window and door frames
Copper	Expansion joints
Glass	Siding
Fiberglass (FRP)	Parapets
Tedlar® PVF	Cove Joints
Engineered Plastics (PVC)	Transportation
EPS Foam	Weather Sealing

*Test and evaluate to ensure adequate adhesion.

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	8.1 +/- 0.2 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
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 177°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.*

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 **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 MSDS for first aid information.

See www.chemlink.com for most current MSDS .

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 32°F (0°C).
- Do not use on surfaces to be painted.
- Do not use on TPO without CHEM LINK TPO primer.
- Do not use on tub and tile applications.
- Staining may occur on limestone and porous substrates, test and evaluate before application.





NOTES:

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www.BestMaterials.com Email: Sales@BestMaterials.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 Material Safety Data Sheet, Technical Data Guides and full warranty for this product.

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For warranty claim information, call 800-826-1681.