Chem Link Inc.
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Product Description
MetaLink is a moisture curing, polyether sealant designed for the HVAC market. MetaLink is solvent free and contains no isocyanates. MetaLink will not shrink upon curing, will not discolor when exposed to UV light, and can not “out-gas”, or bubble, on damp surfaces as urethane sealants often do. MetaLink has resilient “elastomeric” properties and excellent adhesion to most HVAC substrates. MetaLink can be used effectively in many difficult construction site conditions and may be applied in damp, dry, or cold temperatures as low as 30° F.

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: 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 20 grams/liter (including water), ASTM D2369, EPA Method 24

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 with water based latex paint
• Gun grade, no special tools or mixing required
• Can be applied at temperatures as low as 30° F

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.

<table>
<thead>
<tr>
<th>Joint Width</th>
<th>Joint Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches (mm)</td>
<td>Inches (mm)</td>
</tr>
<tr>
<td>1/4 - 1/2 (6-13)</td>
<td>1/4 (6)</td>
</tr>
<tr>
<td>1/2 - 3/4 (13-19)</td>
<td>1/4 - 3/8 (6-10)</td>
</tr>
<tr>
<td>3/4 - 1 (19-25)</td>
<td>3/8 - 1/2 (10-13)</td>
</tr>
<tr>
<td>1 - 2 (25-50)</td>
<td>1/2 (13)</td>
</tr>
</tbody>
</table>

Typical Uncured Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gun Grade</td>
<td>Zero Slump ASTM C 697</td>
</tr>
<tr>
<td>Viscosity</td>
<td>650,000+ cps Brookfield RVF, TF spindle, 4 RPM, 73° F</td>
</tr>
<tr>
<td>Tack Free Time</td>
<td>20 minutes ASTM C-679</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Mint Smell</td>
</tr>
</tbody>
</table>

Typical Cured Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongation at break</td>
<td>300-350%</td>
</tr>
<tr>
<td>Hardness Shore A</td>
<td>25 +/- 3</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>225 PSI</td>
</tr>
<tr>
<td>Low Temperature Flex</td>
<td>Minus 10° F Pass ¼ inch mandrel</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>No measurable shrinkage after 14 days</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>Minus 40° F to 200° F continuous service</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Cartridges and sausages: 1 year Pails: 3 months</td>
</tr>
</tbody>
</table>

Basic Uses

- Curtain Walls
- Window and Door Frames
- Siding
- Parapets
- Cove Joints
- Weather Sealing

Compatible Substrates*

- Galvanized Metal
- Aluminum
- Glass
- Fiberglass FRP
- EIFS

*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 MetaLink. 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 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.

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
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 MetaLink 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 MetaLink 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.

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.