**INSULRAP™ 50-SJ-NG VAPOUR BARRIER MEMBRANE**

**OLD VERSION OF INSULRAP 50-SJ**

*Insulrap™ 50-SJ-NG* is the “Next Generation” of self-healing vapor barrier membranes used on insulated piping in ammonia refrigeration, oil and gas, LNG, cryogenic, tanks and vessels, and chemical processing applications.

- True Zero Perm Performance
- Embedded low-profile scrim-reinforcement for extra strength, durability and enhanced lap adhesion
- Proven: Used on millions of square feet of insulated pipe for over 20 years with excellent success.
- Uniform factory controlled thickness of 50 mils provides extra toughness and durability
- Saves labor and materials compared to mastic/fab/mastic coatings.
- Superior elastomeric properties accommodate expansion and contraction of the substrate

**DESCRIPTION**

*Insulrap 50-SJ-NG* is a composite membrane consisting of a tough polymer film coated with a layer of rubberized-asphalt specially formulated for this application. Fiberglass scrim is embedded in the laminate using a process that minimizes the scrim profile allowing for a smooth surface that enhances adhesion at the laps. *I-50-SJ-NG* is considered “peel and stick” and self-healing and uses a disposable silicone-coated release liner.

**USES**

*I-50-SJ-NG* is used as a moisture and vapor retarder for insulated piping used in refrigeration, cryogenic and chemical processing. *I-50-SJ-NG* can be used in burial also refer to the data sheet for *Insulrap 125 No Torch NG*. Direct burial applications require special attention! Please refer to technical sheets for direct burial and the use of OuterWrap or InsulShield on direct burial applications.

**INSTALLATION**

*I-50-SJ-NG* can be applied by cigarette wrapping. The silicone release liner should be removed immediately prior to the time of application. The adhesive surface of the membrane shall be applied to the insulation. Cigarette wrap applications will provide for a 3” overlap of the membrane on itself while joints should be overlapped 4”. If pre-applied by a fabricator, 4” butt laps are used. Use pressure from a roller to insure the lap is well conformed to the insulation.

The rubberized asphalt coating on *I-50-SJ-NG* can lose adhesiveness when temperatures are below 50°F. Care should be taken to make sure all overlaps are fully adhered.
Additionally, the following steps can be taken to improve adhesion:

- Keep rolls in a warm storage area prior to use.
- Warm the rubberized asphalt surface side with a heat gun or salamander type heater.
- Apply Polyguard solvent based activator to the insulation or laps. Note that the solvent-based activator may attack certain types of foam insulation.
- Insulation must be clean of all frost and moisture and other foreign matter.

_I-50-SJ-NG_ should be covered with PVC, metal or suitable jacketing material as specified. It should not be left exposed to UV for more than 30 days.

Consult the engineer’s application instructions for recommendations for wall penetrations (existing and new construction), insulation supports, line guide, line anchor, expansion-contraction joints, expansion chamber and ditch configurations including drainage pipe.

LIMITATIONS

_I-50-SJ-NG_ is a vapor and waterproofing membrane only and should not be used as a substitute for banding or mechanical fastening of pipe insulation. Consult the insulation manufacturer for further information. Insulation surface temperature should not exceed 150°F during operation.

PACKAGING AND STORAGE

_I-50-SJ-NG_ is available in 4” x 50’, 23” and 35” x 75 ft. rolls. All material should be stored in a cool, dry place and kept from contact with the ground and protected from weather at all times. During cold weather, it is recommended that materials be stored in heated buildings between 70° and 80°F.

PRECAUTIONS

The information in this data sheet is designed to be helpful to the reader. It is based on experience and information considered to be accurate and true. Readers should carefully consider and verify the information with investigation of any areas with uncertainty. _Polyguard_ does not warrant the results to be obtained. Additionally, please read everything here in conjunction with _Polyguard’s_ conditions of sale, and returns policies. No statement here is intended for any use which would infringe on any patent or copyright.

TECHNICAL PROPERTIES AND TESTING

<table>
<thead>
<tr>
<th>Membrane Property</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td></td>
<td>Black</td>
</tr>
<tr>
<td>Total Product Thickness (w/o liner)</td>
<td>Micrometer</td>
<td>50 mils</td>
</tr>
<tr>
<td>Weight per SqFt.</td>
<td>Scale</td>
<td>0.3 Lbs</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96-00 Procedure A</td>
<td>0.00 perms</td>
</tr>
<tr>
<td>Breaking Strength</td>
<td>ASTM D882</td>
<td>51 Lbs/in(M) 41 Lbs/in(T)</td>
</tr>
<tr>
<td>Puncture Resistance</td>
<td>ASTM E154</td>
<td>81 Lbs.</td>
</tr>
<tr>
<td>Overlap Adhesion</td>
<td>ASTM D1000</td>
<td>&gt;14 lb/in</td>
</tr>
<tr>
<td>Service Temperature(Max)</td>
<td>LAB</td>
<td>160°F</td>
</tr>
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_Polyguard Products, Inc._ will replace F.O.B. Ennis, TX, material not meeting our manufacturing specifications up to one year from date of sale. Made in the U.S.A.