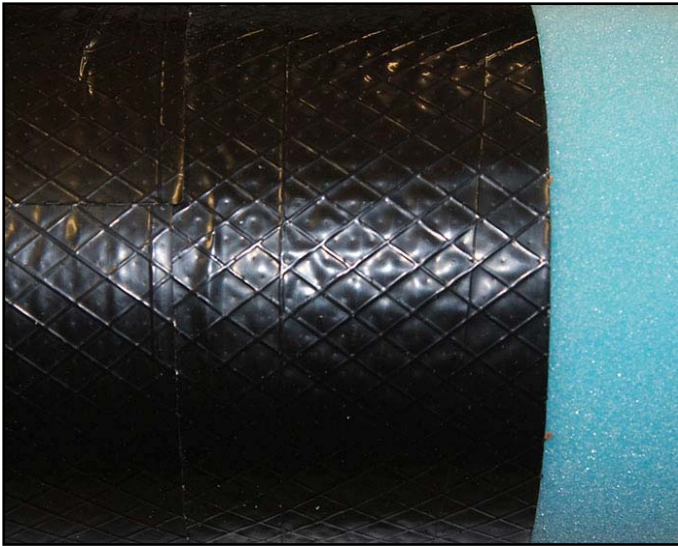


## INSULRAP™ 50-SJ VAPOR BARRIER MEMBRANE



*Insulrap™ 50-SJ* is the premier direct burial membrane in the insulation market offering unsurpassed water and vapor-proofing capability

### ADVANTAGES

- Scrim-reinforcement for extra strength, durability
- Proven: Used on millions of square feet of insulated pipe for over 20 years with excellent success.
- Self-Healing: the rubberized bituminous membrane seal punctures. Self-sealing laps.
- Uniform factory controlled thickness of 50 mils.
- Saves labor and materials compared to mastic/fab/mastic coatings.
- Superior elastomeric properties accommodate expansion and contraction of the substrate
- New black color

### DESCRIPTION

*Insulrap 50-SJ* is a heavy-duty 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 for added strength. *Insulrap 50-SJ* is considered "peel and stick" and self-healing and uses a disposable silicone-coated release liner.

### USES

*Insulrap 50-SJ* is used as a moisture and vapor retarder for insulated piping primarily in direct burial applications. *Insulrap 1 50-SJ* is often used in combination with *Insulshield™* to protect buried systems from rock or other backfill damage. Large diameter pipes require the use of *OuterWrap™*, which acts as a 'slip sleeve' and minimizes the potential wrinkling of the *Insulrap 50-SJ* due to soil stress build-up. *Low Temperature Activator* is

recommended to improve low-temperature adhesion or adhesion to porous or dusty insulation surfaces.

### INSTALLATION

*Insulrap 50-SJ* 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 wrapped with 4" butt strips. Use pressure from a roller to insure the lap is well conformed to the insulation.

The rubberized asphalt coating on *Insulrap 50-SJ* 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 or water-based *Low Temperature 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.

*Insulrap 50-SJ* can be used for fitting elbows and joints. For insulated pipes with outside diameters up to 16", 4" wide *Insulrap 50-SJ* should be used in a spiral-wrap configuration. For pipe with outside diameters greater than 16", 6" or 12" *Insulrap 50-SJ* should be used. A 50% overlap should be used at all seams.

**Covering:** *Insulrap 50-SJ* should not be left exposed to UV for more than 7 days. It should be covered with jacketing or *Insulshield*, or should be backfilled promptly.

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This information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

**Drainage:** The insulated pipe should be installed above the water table level on a gravel base with proper drainage using a sand or geotextile drain system provided by the engineer or architect. *Insulrap 50-SJ* is not designed for long term immersion in water.

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

***Insulrap™ 50-SJ* is a vapor and waterproofing membrane only and should not be used as substitutes 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

*Insulrap 50-SJ* is available in 4" x 50ft, and 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, which are applicable to everything supplied by us. No statement here is intended for any use which would infringe any patent or copyright.

*Polyguard Products, Inc.* will replace F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications one year from date of sale. Made in the U.S.A.

## SAFETY

All *Polyguard* products must be handled in a safe manner. Some products (some mastics or primers) contain solvents, and these deserve special attention to safety since their vapors are both flammable and harmful if inhaled. Also certain 2 component products contain especially hazardous components. Read both the product label and the Material Safety Data Sheet (MSDS) before use. MSDS sheets can be obtained at our website [www.polyguardproducts.com](http://www.polyguardproducts.com). Call *Polyguard* at 214-515-5000 if you have any questions.

Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product including waste disposal.

## TECHNICAL PROPERTIES & TESTING

Membrane Property	Test Method	Results
Total Product Thickness(w/o liner)	Micrometer	50-53mils
Permeance(US Perms)	ASTM E96-00	0.07
Elongation at Break	ASTM D882	>400%
Tensile Strength(MD)	ASTM D751	51 lbs/in
Puncture Resistance	ASTM E154	>40 lbs
Overlap Adhesion	ASTM D1000	>12 lb/in
Service Temperature(Max)	LAB	160°F