



INSULRAP 30™

Insulrap 30™ smooth or **Insulrap 30-SJ™** are “peel and stick”, self-healing, vapor retarder membranes made of rubberized bitumen laminated to a scrim reinforced polyethylene film. The total thickness is 30 mils, wound on a disposable silicone coated release sheet. **Insulrap™** smooth or **SJ** is used as a moisture and vapor retarder for insulated piping used in refrigeration, cryogenic, chemical processing. **Insulrap™** smooth or **SJ** can be used in burial applications if covered with a mechanical jacket.

ADVANTAGES:

- Uniform factory controlled thickness.
- Significant labor and material savings compared to mastic/fab/mastic coatings.
- Even after folding **Insulrap™** smooth or **SJ** retains excellent water resistance and vapor proofing
- Superior elastomeric properties accommodate normal expansion and contraction of the substrate
- Self-sealing laps.
- The scrim reinforcement and backing thickness gives extra strength.



TECHNICAL DATA: <i>Insulrap 30™</i>		
PROPERTY	TYPICAL MEASUREMENT	TEST METHOD
Total Thickness	30 mils (0.76mm)	ASTM D 1000
Backing Thickness	6 mils (0.15mm)	ASTM D 1000
Tensile Strength (<i>diagonal</i>)	51 lb/in/width (5 kg/cm)	ASTM D 751
Elongation At Break	>400%	ASTM D 751
Overlap Adhesion	> 10 lb/in. width	ASTM D 1000
Water Vapor Transmission	0.007	ASTM E 96-93 UBC #14-1
Permeance (<i>perms</i>)	.015 max	ASTM E 96-93 UBC #14-1

Insulrap 30™ smooth or **SJ** should be handled and stored so as to prevent injury to the packages. All packages and rolls of wrapping materials should be stored in a cool, dry place and kept from contact with earth and protected from weather at all times. It is recommended that the materials be stored in heated buildings 70°F – 80°F during low temperatures. The insulation shall be clean of all frost, moisture and other foreign matter.

Insulrap 30™ smooth or **SJ** can be applied by cigarette wrapping. The silicone coated release sheet is to 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 2" overlap of the membrane on itself. Cigarette wrapped 4" butt strips will be applied at the joints to insure waterproofing integrity at the joint areas. Use pressure from a roller or otherwise to insure that the lap is well conformed to the insulation surface.

When applied in cool temperature conditions such as 50° F, the adhesive surface of **Insulrap™** smooth or **SJ** may lose a portion of its adhesiveness. Care should be taken to make sure that **Insulrap™** smooth or **SJ** is fully adhered at all overlaps. The following measures will improve adhesion in cool installation conditions:

Keep rolls of **Insulrap 30™** smooth or **SJ** in a warm storage area prior to using. Warm the surface of the asphalt side and/or the surface being coated with a heat gun or salamander type heater just prior to application. Apply **Polyguard's** solvent or water based activator to the insulation and/or laps. NOTE: Solvent-based activator will attack some types of foam insulation.

WARNING: Apply heat only after the solvent-based activator has dried and no solvent vapors are present.

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



Insulrap 30™ smooth or **SJ** should be covered with PVC, metal or suitable jacketing material as specified. It should not be left exposed to ultraviolet light for more than seven days. If for any reason it has to remain exposed, cover with a black plastic film, cardboard or any suitable material until the membrane is jacketed.

<u>Temperature Ranges:</u>	<u>Minimum:</u>	<u>Maximum:</u>
Application	0°F. (-17°C)	125°F. (52°C)
Insulation Surface	-25°F. (-14°C)	150°F. (66°C)

If **Insulrap 30™** smooth or **SJ** is to be used as a vapor barrier on buried piping it must be jacketed with a mechanical jacketing system prior to burial. For direct burial membranes, please refer to the data sheets on **Insulrap 50™** and **125™**.

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 30™ smooth or **SJ** is a vapor barrier or waterproofing membrane only. **DO NOT** use this product as a substitute for banding or mechanical fastening of pipe insulation. Consult insulation manufacturer's instructions for further information. Insulation surface temperature should not exceed 150° F. during operation.

PRECAUTIONS:

This material is offered for sale by **POLYGUARD PRODUCTS, INC.**, only for the expressed purpose as described in this literature. Usage for purposes other than taught therein by **POLYGUARD PRODUCTS, INC.** shall be the responsibility of the purchaser and **POLYGUARD PRODUCTS, INC.** does not warrant nor will be responsible for any misuse of these products. **POLYGUARD PRODUCTS, INC.** will replace, F.O.B. Ennis, TX, material not meeting our manufacturer's specifications, one year from date of sale.

POLYGUARD'S products as described herein are for industrial use only. The application of these products should be performed by workmen who are skilled in the application of materials described herein in accordance with manufacturer's specifications.

All Material Safety Data Sheets and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Consult **POLYGUARD PRODUCTS, INC.**, Material Safety Data Sheets and OSHA regulations for additional safety and health information for the products described herein. Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product including waste disposal.

This is not a Material Safety Data Sheet and is not to be used as such. **POLYGUARD** has prepared separate Material Safety Data Sheets on our products.