

# INSULRAP 75™

## Heavy-Duty Underground Insulation Protection

**INSULRAP-75™** is a 75-mil **SELF ADHESIVE** vapor barrier and waterproofing membrane for installation over insulation on underground hot or cold piping systems. **INSULRAP-75™** is a scrim reinforced “peel and stick” membrane providing maximum protection of buried insulated pipe systems with the labor saving ease of a peel and stick application. **INSULRAP-75™** will expand and contract to accommodate normal pipe movement and is resistant to chemicals, acids, and alkalis.

TECHNICAL DATA: POLYGUARD INSULRAP - 75™		
Total Thickness	75 mils (1.9 mm)	ASTM D 1000
Scrim Backing Thickness	8 mils (0.20 mm)	ASTM D 1000
Membrane Thickness	5 mils (0.127 mm)	ASTM D 1000
Overlap Adhesion	> 20#/in width	ASTM D 1000
Ultimate Elongation (%)	> 600%	ASTM D 882 Method A
Permeability	< .014 Perms	ASTM E 96-93 UBC
Tensile Strength Film	> 6000 PSI	ASTM D 882 Method A
Peel Adhesion	> 15#/in width	ASTM D 1000
Puncture Resistance	> 40#	ASTM E 154
Low Temperature Flexibility	No Cracks @ -15° F	ASTM D 146Modified

**INSULRAP-75™** should be stored out of the weather, moved and stored away from possible physical damage. The recommended storage temperature range is 50° to 80°F. In cool temperatures, (below 50° F) Polyguard Cold Weather Activator or a heat gun should be used to improve adhesion. The insulation must be clean of all frost, moisture, dust and other foreign matter.

**INSULRAP-75™** can be applied by cigarette wrapping or factory applied by insulation fabricators. The silicone coated release sheet is to be removed *immediately* prior to the time of application. The tacky surface of the membrane shall be applied to the insulation. Cigarette wrap applications must provide for a 3" overlap of the membrane onto itself on all laps. Factory installed membrane requires a 4" butt strip 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. A cold weather activator is available when working below 55°F.

When applied in cool temperature conditions such as below 50°F, the membrane's sticky surface will lose a portion of its tackiness. The colder the temperature, the more tackiness it will lose. Care should be taken to make sure that **INSULRAP-75™** is fully adhered at all overlaps. The following measures will improve adhesion in cool installation conditions:

- Keep rolls of **INSULRAP-75™** in a warm storage area prior to using (above 60°F)
- Warm the surface of the membrane and the surface being covered with a heat gun immediately prior to application.
- **Polyguard's** Cold Weather Activator should be applied to the substrate and lap areas. NOTE: The solvent-based activator will attack certain types of foam insulation.

**WARNING: If you apply heat along with our Cold Weather Activator insure the Activator is dry and solvent vapors are not present! The solvent-based activator will ignite!**

**INSULRAP-75™** should not be left exposed to ultraviolet light for more than fourteen days. If for any reason it has to remain exposed, cover with a plastic film, cardboard or any suitable material until the membrane is buried or jacketed with a metal or PVC jacket.

<b>Temperature Ranges:</b>	<b><u>Minimum</u></b>	<b><u>Maximum</u></b>
Application	0°F (-17°C)	125°F. (52°C)
Insulation Surface	-25°F (-14°C)	180°F. (82°C)

Please contact Polyguard Products for direct burial detail drawings. Consult the engineers 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.

***INSULRAP 75™ is a vapor barrier or waterproofing membrane only. DO NOT use the 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.***

This material is offered for sale by **POLYGUARD PRODUCTS, INC.**, only for the expressed purpose as described in this literature 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** 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.

**MATERIAL SAFETY DATA:**

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 each product.

Technical assistance and information is available from:

**POLYGUARD PRODUCTS, INC.**

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