

INSULRAP™ “NO TORCH” 125 NG

Maximum Underground Insulation Protection

INSULRAP™ “NO TORCH” 125 NG is a 125 MIL SELF-ADHESIVE vapor barrier and waterproofing membrane for installation over insulation on hot or cold underground piping systems. **INSULRAP “NO TORCH” 125 NG** is a multi-layered “peel and stick” product providing maximum protection of buried insulated pipe systems with the labor saving ease of a peel and stick application. The outer film is a multi-laminate foil and polyester, high strength with an imbedded polyester scrim pattern for extreme strength. **INSULRAP “NO TORCH” 125 NG** will expand and contract to accommodate normal pipe movement and is resistant to chemicals, acids, and alkalis. **INSULRAP “NO TORCH” 125 NG** will tolerate higher insulation surface temperatures than our other burial membranes. The design and engineering of insulation on buried steam lines is critical to the success of the system; special care must be taken in the design of these systems, consult the insulation manufacturer for more information.

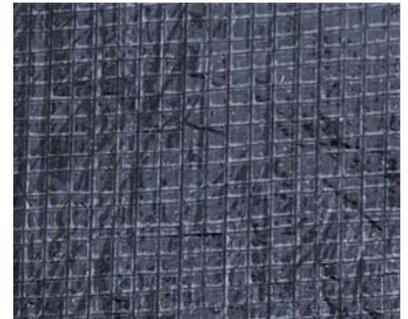
APPLICATION INSTRUCTIONS AND PRECAUTIONS:

Materials should be stored out of the weather, moved and stored away from possible physical damage. The recommended storage temperature is 50°F to 80°F. In cool temperatures, (below 50° F) **Polyguard Low Temperature Activator** should be used to improve adhesion to the substrate. See submittal data sheet for **Polyguard Low Temperature Activator** products for more information on their use and application.

Prior to application, insure that the insulation is clean of all frost, moisture, fabrication dust and other any other

foreign matter. Large diameter pipes require the application of **Insulrap™ Outerwrap** to prevent soil stress.

Though commonly factory pre-applied by qualified insulation fabricators, **INSULRAP “NO TORCH” 125 NG** can be applied by in the field using a ‘cigarette wrap’ method. The silicone coated release sheet is to be removed immediately prior to the time of application. ‘Cigarette wrap’ applications must provide for a 4” overlap of the membrane onto itself on both the longitudinal seam and the circumferential seam. Use pressure from a roller to insure that the lap is well conformed to the insulation surface. When ‘single layered’ insulation is installed on hot applications, double layering of the butt strips is recommended. If a **Low Temperature Activator** is used, it is applied directly to the insulation, being cautious that our solvent-based activator can erode some foam insulations. If you are installing **INSULRAP “NO TORCH” 125 NG** over cellular glass insulation, there is no chance of the solvent-based activator attacking the insulation. It is a known fact that our solvent-based activator will attack blue Styrofoam® insulation.



TECHNICAL DATA: INSULRAP™ “NO TORCH” 125 NG		
Total Thickness	125 mils (3.175 mm)	ASTM D 1000
Backing Thickness	6 mils (0.15 mm)	ASTM D 1000
Membrane Thickness	5 mils (0.127 mm)	ASTM D 1000
Overlap Adhesion	> 20#/in width	ASTM D 1000
Ultimate Elongation (%)	> 400%	ASTM D 882 Method A
Permeance	< .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	> 80#	ASTM E 154
Low Temperature Flexibility	No Cracks @ -15° F (-25° C)	ASTM D 146 Modified

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Temperature Ranges:		
	Minimum	Maximum
Application	0°F. (-17°C)	125°F. (52°C)
Insulation Surface	-25°F. (-14°C)	150°F. (82°C)

When applied in cool temperature conditions such as below 50°F, the adhesive surface may lose a portion of its adhesiveness. Care should be taken to make sure that **INSULRAP™ "NO TORCH" 125 NG** is fully adhered at all overlaps. The following measures will improve adhesion in cool installation conditions:

- Keep rolls of **INSULRAP "NO TORCH" 125 NG** in a warm storage area prior to use.
- Warm the surface of the adhesive and/or the surface being coated with a heat gun prior to application.
- **Polyguard's Low Temperature Activator** should be applied to the substrate and lap areas.
- Large diameter pipes require **Insulrap Outerwrap** to prevent soil stress.

WARNING: If necessary, only apply heat after the solvent based activator has flashed off and no solvent vapors are present! Heat should not be required except in extreme cold.

INSULRAP™ "NO TORCH" 125 NG 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.

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™ "NO TORCH" 125 NG is a vapor barrier or waterproofing membrane only. **DO NOT use our product as a substitute for banding or mechanical fastening of the pipe insulation.** Consult insulation manufacturer's instructions for fastening instructions. Insulation surface temperature should not exceed 180° 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, 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.

All Safety Data Sheets (SDS) and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Consult **POLYGUARD PRODUCTS, INC.**, 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 Safety Data Sheet and is not to be used as such. **POLYGUARD** has a Safety Data Sheet available.