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# INSUL-SEAL® Super Stick

## SHEET MEMBRANE FOR WATERPROOFING THERMAL INSULATION

### DESCRIPTION

Protecto Wrap's Insul-Seal Super Stick Sheet Membrane Insulating Jacket System consists of a pressure sensitive; block copolymer synthetic butyl membrane laminated to a heavy-duty black woven polypropylene film on the face and a siliconized, removable, release sheet on the adhesive side. The factory controlled thickness ensures uniform thickness on the job, while the inherent waterproofing properties of the synthetic butyl membrane provide waterproofing protection to insulated piping and equipment, helping to assure the thermal performance of the insulation and provide energy savings. Insul-Seal Super Stick is provided in 36 inch wide by 75 foot long rolls. Other widths available upon request.

### TYPICAL USE

Insul-Seal Super Stick Sheet Membrane Insulation Jacket System, when wrapped around insulation, provides a tough, pliable outer film that resists punctures from rocks and sharp objects when backfill material is used. It also provides vapor barrier protection on cold piping and equipment to prevent moisture build up and condensation from forming in the insulation. Insul-Seal Super Stick may be applied in spiral wrap or cigarette wrap applications. Since no drying or curing time is necessary, Insul-Seal Super Stick may be buried immediately.

### ADVANTAGES

- Factory controlled thickness
- Release film provides ease of application for significant labor savings
- Provides maximum resistance to water or vapor transmission
- Provides self-sealing properties that provides an excellent bond at the overlap.
- No special adhesives, primers, catalysts or heat are required.
- Minimizes energy loss by keeping insulation dry and free of condensation
- Protects substrate from deterioration from exposure to below ground acids and alkalis found in normal soils
- Provides improved resistance to hydrocarbon contaminated soils
- Elastomeric properties allow for movement of the substrate
- Has a Class A rated 5/45 Flame/Smoke rating

### TECHNICAL DATA

PROPERTY	TEST METHOD	RESULTS
Film Color		Black
Total System Thickness		20 mil
Overlap Adhesion	ASTM D903-49	4.0 lbs/in
Tensile Strength Film	ASTM D412	MD=939 CD=1252
Ultimate Elongation	ASTM D412	300%
Puncture Resistance	ASTM E154	189.8 psi
Permeance	ASTM E96 Method A	.013
Application Temperature		-20° to 130°F
Operation Temperature		-45° to 300°F
Flame and Smoke spread	ASTM E84	Class A 5/45

### LIMITATIONS

Insul-Seal Super Stick is a waterproofing membrane only. Do not use as a substitute for banding or mechanical fastening of pipe insulation. Consult insulation manufacturer's application instructions for correct banding or mechanical fastening information.

When used permanently above ground, Insul-Seal Super Stick should be immediately overwrapped with an aluminum jacket or other protective course to protect the membrane from ultraviolet degradation. Protecto Wrap Company's Protecto Seal 45 is a suitable outer wrap in exposed areas. Contact Protecto Wrap Company for more information on Protecto Seal 45.

### MATERIAL STORAGE

Insul-Seal Super Stick should be handled and stored in a manner as to prevent damage to the material and cartons from rain and physical damage. Protecto Wrap recommends that all materials be stored in a heated building during cold weather. Store all materials away from sparks or flames and where materials will not exceed 120°F for extended periods. Outdoors, place Insul-Seal Super Stick cartons on raised pallets and cover completely.





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### SURFACE PREPARATION

The insulation shall be clean of all frost, moisture and other foreign material. Surface temperatures of the insulation should not exceed 165°F. Butt joints and longitudinal seams should be inspected so that excess heat (in hot lines) is not allowed to escape.

On soft or extremely dusty insulations such as fiber glass, rock wool, or calcium silicate, a 4 inch wide piece of Insul-Seal-50 should be wrapped around the insulation every 16 inches to 38 inches as required to anchor the outer wrapping of Insul-Seal-50. It should be applied over the butt joint and may require mechanical fastening in some cases.

### INSTALLATION

When Insul-Seal Super Stick is installed using the cigarette wrap technique using 36 inch wide sections, the Insul-Seal Super Stick material should be cut to the proper length to wrap around the insulation and overlap a minimum of 2 inches. On small diameter installations, peel off the release paper and set Insul-Seal Super Stick into the correct position. On large diameter installations, peel off the first 9 inches, position Insul-Seal Super Stick and press the membrane around the insulation, removing additional release paper as the Insul-Seal Super Stick is applied. Overlap longitudinal seams at least 2 inches. Butt seams should be overlapped at least 2 inches.

Apply pressure using a roller or other source to all lap and end joints to ensure that the lap is well conformed and adhered to the insulation surface.

On exposed or cold insulated piping or equipment, care should be taken to ensure all seams are well adhered. Fishmouths should be slit and repaired with a strip of 6 inch wide tape applied around the entire installation and overlapping itself at least 2 inches.

If moisture is already present in the insulation at the time of application of Insul-Seal Super Stick, blisters may begin to form on hot lines. Slit the blisters to relieve the vapor pressure and patch using a 6 inch wide strip of Insul-Seal Super Stick applied around the entire installation and overlapping itself at least 2 inches.

If application is to be permanently exposed to ultraviolet light, Protecto Wrap Protecto Seal 45 Aluminum-topped tape shall be used.

### APPURTENANCE DESIGN

Consult the engineer's application instructions for recommendations for wall penetrations, insulation supports, line guide, line anchor, expansion-contraction joints, expansion chamber and ditch configurations including drainage pipes.

### LIMITED WARRANTY

Protecto Wrap Company warrants materials to be free of defects and will replace or, at our option, refund the purchase price of any materials proven to be defective. THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PROTECTO WRAP COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES NOR SHALL LIABILITY, IF ANY, EXTEND BEYOND THE PURCHASE PRICE OF THE MATERIAL. PROTECTO WRAP COMPANY DOES NOT WARRANT THE WORKMANSHIP OF THE APPLICATOR.

### PACKAGING

ROLL SIZE	ROLLS PER CASE	WEIGHT PER CASE	CASES PER PALLET
36" x 75'	1	75	25

*Other widths available upon request.*



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