



PROTECTO SEAL 50 BUTYL

Exposable Waterproofing Membrane



An All Purpose, Weatherproofing
and UV Resistant Membrane
for Exposed and Buried Pipes

PROTECTO SEAL 50 BUTYL is a cold applied, self-adhering membrane composed of a 50 mil, self-adhered, butyl based, waterproofing membrane with a tough cross laminated polyethylene film laminated to an aluminum foil for UV resistance as well as weatherability.

USES:

Protecto Seal 50 Butyl 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. Protecto Seal 50 Butyl may be applied in spiral wrap or cigarette wrap applications. Since no drying or curing time is necessary, Protecto Seal 50 Butyl may be buried immediately.

Used as a complete waterproof membrane as an insulation vapor barrier on exposed pipelines and buried pipelines.

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 Protecto Seal 50 Butyl should be wrapped around the insulation every 16 inches to 38 inches as required to anchor the outer wrapping of Protecto Seal 50 Butyl. It should be applied over the butt joint and may require mechanical fastening in some cases.

Substrate surfaces shall be clean, dry and free of any foreign materials. The substrate surface shall be free of gaps, sharp edges and protrusions. Metal surfaces may need to be solvent wiped, primed and/or abraded to achieve optimum adhesion.

FEATURES & BENEFITS

- Butyl adhesive
- UV rated for 10 year min. exposure
- Fully adhered system
- Puncture and abrasion resistant
- Forms a positive air/vapor barrier
- Quick, easy to use
- All weather, can be exposed
- Tough and durable
- Factory controlled thickness
- Less material loss and cleanup
- Provides ease of application for significant labor savings
- 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



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APPLICATION:

When Protecto Seal 50 Butyl is installed using the cigarette wrap technique using 36 inch wide sections, the Protecto Seal 50 Butyl 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 Protecto Seal 50 Butyl into the correct position. On large diameter installations, peel off the first 9 inches, position Protecto Seal 50 Butyl and press the membrane around the insulation, removing additional release paper as the Protecto Seal 50 Butyl 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.

AVAILABLE SIZES:

36" x 50' Roll

Other sizes available upon request

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 Protecto Seal 50 Butyl, 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 Protecto Seal 50 Butyl applied around the entire installation and overlapping itself at least 2 inches.

CLEAN UP:

Dispose of waste in accordance to local requirements. Control work site so that boxes and release liner do not present a hazard. Packaging materials and release paper can be recycled.

CAUTION:

Protecto Wrap Company recommends the use of safety glasses and gloves. Protecto Wrap Company recommends the use of appropriate fall protection when working aboveground level.

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.

For warranty and additional information, please contact your Protecto Wrap Company Representative.

TECHNICAL PROPERTIES

PROPERTIES	ATTRIBUTES	TEST RESULTS
Color	Aluminum Silver	
Thickness	50 mil	
Tensile Strength	400 psi	ASTM D412
Peel Strength	9 lb/in	ASTM D903
Puncture Resistance	75 lbs	ASTM E154
Low Temp Flex	No cracks or delamination	ASTM D1970
Elongation	Min. of 225%	ASTM D412
Nail Sealability	Pass	ASTM D1970
Installation Temperature	10°F (-12.2°C) - 120°F (48°C)*	
In-Service Temperature	-45°F (-42°C) - 300°F (148.8°C)	
Permeance	<.05	ASTM E96

**If temperature is below 20°F (-6.6°C), primer should be used prior to the application of the membrane.*



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