

## TECHNICAL BULLETIN TANK HEAD SYSTEMS

Date: April 3, 2007

**SUBJECT:** INSTALLATION SHEET FOR TANK HEAD SYSTEMS  
INSULATED WITH RIGID BOARD TYPES OF INSULATION

**PRODUCTS TESTED:** Alumaguard® on Tank Head Systems

### PRODUCT DESCRIPTION

**ALUMAGUARD** is a laminated jacketing system. This waterproofing/vapor barrier membrane is composed of a rubberized bitumen compound; laminated to a cross-laminated high strength polyethylene film with an aluminum foil face. **ALUMAGUARD** is supplied in rolls for ease of application with a disposable release sheet; **ALUMAGUARD** is a "peel n stick" application.

### PRODUCT USES

**ALUMAGUARD** is used as an ultraviolet resistant, weather proof, vapor barrier jacketing system. **ALUMAGUARD** is an excellent 'over insulation' lagging material used instead of metal jacket, PVC jacket, or mastic/fab/mastic applications.

### PRODUCT ADVANTAGES

- Ease of installation; "Peel & stick" product
- Significant labor savings (vs. metal or fab & mastic)
- Chemical resistant to most acids, salts, bases
- UV Resistant
- Does not promote mold growth
- No carcinogens
- Remains elastomeric in sub-zero temperatures
- Easily fabricated to fit odd shaped vessels or equipment
- Minimal tools required for installation (Razor knife & roller)
- "Cold Flow" properties (self repairing base material)
- Excellent sound absorption properties (STC 18)
- Excellent perm rating (.014)
- Consistent 60 mil thickness
- Minimal clean up required (release paper)
- Self sealing bond strengthens over time

### TANK HEAD INSTALLATION:

**NOTE:** **ALUMAGUARD must be applied using our solvent based activator and must be pinned through the insulation to the tank surface.**

For tank head installation, rigid insulation should be used, and the better the job will appear cosmetically. High density mineral fiber boards are sufficient in areas where foot traffic is not anticipated.

**Note:** A very rigid insulation **MUST** be used in walkways (i.e. Cellular Glass), and walkways should be marked so that personnel remain on the walkways when servicing the tank in the future.

Install the insulation on the tank head according to the manufacturer or project specifications instruction. Coat the faced surface of the installed board with **Polyguard's Low Temperature Activator** (even if it's not cold!) according to the instructions on the **Low Temperature Activator** data sheet. Install the **ALUMAGUARD** "gore" pieces, rolling the surface with a laminate roller to insure contact with the substrate. When installing each subsequent "gore", insure that the activator is applied to the lap areas of the previous piece (a 3" roller is good for this).

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



Polyguard is ISO 9001 certified since 1996.

Insulated mini-cup weld pins should then be shot through the insulation and **ALUMAGUARD** to the tank head surface to prevent high wind from pulling the **ALUMAGUARD** off the substrate. Install pins at a maximum of 12" spacing in staggered rows.

When pinning is complete, install a 6" square piece of **ALUMAGUARD** over each pin head to prevent moisture conductance and rusting. If tank corrosion is an issue under the insulation, please refer to <http://www.rg2400.com> for information on a product which will prevent corrosion under insulation.

**ALUMAGUARD** must be protected from damaging chemicals; being a rubberized bitumen compound, we will be 'solvated' when exposed to some petroleum or coal tar based compounds. If you are unsure of the materials you will be subjecting our product to, please feel free to call us at 1-800-541-4994 for more information.

Remember to use OSHA fall protection gear when working on tank roofs, aluminum can be very slippery.

