Technical Data Sheet

Description
Ames® Elasto-Barrier® is a water-based liquid, adhesive base coat that uses dual-rubber technology to waterproof roofs. This easy-to-apply, highly elastomeric coating is specifically designed to work with Ames reinforcement roof fabric and Ames Maximum-Stretch, UV-resistant topcoat. When used together, these products create a roof coating system that helps to renew, revitalize and extend the life of properly drained roofs.

As a liquid, Elasto-Barrier flows into cracks and crevices. As it cures, Elasto-Barrier sets up as a tough, durable rubber, sealing leaks wherever they occur. Elasto-Barrier stretches up to 1200%, expanding and contracting to resist cracking and peeling. It has excellent bonding to old tar and asphalt roofs. Elasto-Barrier must be topcoated.

Features and Benefits
- Simple application – brush, roller, squeegee or airless spray applied
- Ready Mixed – single component
- Commercial/Residential Roof maintenance base coat
- Excellent adhesion to aged existing roofing surfaces

Uses
- As a basecoat and primer in roof restorations and maintenance.
- Liquid component of reinforcing membrane details for roof systems

Suitable Substrates
When used as a basecoat/primer on existing Tar Roofs for preventative maintenance,
- Existing Tar Roofs even badly deteriorated
- Existing Modified Bitumen “Torch-down” Roofs
- Existing Cap Sheet Roofs, Rolled Roofing
- Existing Metal Standing Seam and Corrugated Roofs
- Existing Concrete Roofs
- Contact Ames Technical Services if roof conditions are suspect or prone to leaking for guidance

Packaging Information
- 1 gallon
- 5 gallons
- in 55-gallon drum or 275 gallon totes

Limitations
- Do not allow product to freeze in shipping, storage or during cure.
- Do not apply in inclement weather, rain if expected within 24 hours.
- Do not apply if temperature is expected to drop below 32°F in the next 8-16 hours.

Coverage Rate
Standard coverage for Elasto-Barrier is 1 gallon per 100 sq. ft. Rough or inconsistent surfaces may require additional coats.

Standard Suggestions
Ames’ roof coating systems have been designed to seal, protect, maintain and renew existing roofs that are savable and have a sound, solid substrate. The surface must be sound, solid and firm. Assessment of the roof or surface is the sole responsibility of the Owner, Owner’s Representative, or Purchaser of the product.

Some roofs are too flat and are improperly drained. These types of roofs must be annually inspected. Standing water on roofs are structural design problems that should be amended for proper drainage. Contact a building inspector near you to be sure you are following local building codes.
Substrate Conditions
- Inspect substrate for suitability to proceed with application of Elasto-Barrier
- Read all instructions on this label before beginning. Always run a test patch first in an inconspicuous area to ensure that proper adhesion and drying occurs with your product and that it works to your satisfaction before proceeding. Do not proceed unless you are satisfied.

Surface Preparation
- Pressure Wash, or Scrub and Rinse existing roof with clean water.
- Do not use sops or detergent
- All surfaces must be thoroughly dry prior to beginning work

Repairing Details on Various Roofs prior to re-coating
- Check existing fasteners at flashings, nailed down cap sheet seams, and other roof mounted items refastening or replacing fasteners as needed.
- On all roof types overlapped seams between roof sheeting, flashing details, mechanical equipment curbs, pitch pockets, cable mounts and drain transitions all need to be counter flashed with polyester fabric installed into a wet bed of Elasto-Barrier.
- Allow embedded flashing details to dry 24 hours before beginning first body coat of Elasto-Barrier.
- If other details not mentioned here exist on your project, contact our Technical Services Dept. for our recommendations in proceeding.

Elasto-Barrier Application
- After the detail work has been completed and adjacent materials have been masked or otherwise protected appropriately for the application technique, Elasto-Barrier can be applied with roller, squeegee, or spray application.
- Apply 1st coat of Elasto-Barrier at a rate of 1 gal. per square (100 sq. ft/gal) and allow to cure a minimum of 8 hours.
- Note: If the substrate is rough or irregular an additional coat of Elasto-Barrier applied at the same 1 gal per square may be required.
- After Waterproofing layer(s) have cured apply a 2nd coat of Elasto-Barrier on the roof at a rate of 1gal. per square (100 sq. ft/gal) and, while wet, roll out a layer of reinforcing polyester fabric into the wet material, remove air pockets and wrinkles, overlap the fabric a minimum of 4 inches and roll over the still wet embedded fabric to completely saturate the fabric and remove any air pockets.
- Once the embedded polyester fabric has dried a recommended 24 hours apply a 3rd coat of Elasto-Barrier at a rate of 1gal. per square (100 sq. ft/gal).
- The Super Elasto-Barrier Fabric Reinforced System should measure 30 mils dry film thickness when properly applied Always check previous coat you have applied for cure before walking on the coating surface.
- Some areas may appear to be dry – be cautioned that areas of spray overlap or additional thickness may take longer to dry. Dry times are dependent on weather conditions.
- A mil gauge (wet mil gauge) can be used to check the thickness during application of each coat.
- Airless Equipment sizing should be a flow rate of 1.5 to 2 GPM, 2500 to 3000psi, Heavy Duty Reverse-clean tip (without diffuser pin) sizes 629 (12” fan .029 orifice size) to 633 (12” fan -033 orifice size) Hose size ¾” reduced to ½” before connection to gun swivel
- If airless has a machine filter in addition to the intake rock screen we recommend either a 40-mesh filter or temporarily removing the machine filter cartridge altogether.
- Airless equipment should be cleaned after use without delay with warm water.

Temporary Protection of Installed Membrane
- As with all construction materials care should be taken to protect membrane against being soiled or punctured prior to the installation of subsequent products.
- After 72 hours of exposure, protect from UV exposure by direct sunlight.

Drying and Curing
Dry times are dependent upon the thickness of application, humidity, and weather. Elasto-Barrier begins to dry in approximately 2-4 hours, but a full 24 hours between coats is recommended to allow for variations in weather and thickness. Make sure that each coat is completely dry before proceeding with additional coats. The coating should be cured after 24 hours. Some conditions, such as low temperature, high humidity, evening and morning dew, will increase curing times.
Clean-up, Storage, and Disposal
• Clean tools and small spills with water.
• Store unused product in its original can, tightly sealed and protected from freezing.
• Dispose of this product in accordance with local, state, or federal requirements.

Acceptable Topcoats
• Ames Maximum-Stretch
• Ames Snow Roof
• Ames Iron Coat

Application Tools
• 3”–4” Wide Soft-Bristled Paint Brush
• Floor Style Squeegee or Soft Bristled Push Broom
• 9” or 18” Wide Long-Handled Paint Roller with 3/8” or ½” nap roller cover
• Paint tray
• Commercial Airless Sprayer

Other Tools to Help
• Pressure Washer, Garden Hose and Long Handled Deck Brush for prep work
• Mil Gauge to check coating thickness

Companion Products
• Ames® Peel & Stick™ Seam Tape
• Ames Contouring Polyester Roof Fabric as added reinforcement embedded in Elasto-Barrier.
## Elasto-Barrier

### Typical Physical and Performance Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Grey</td>
</tr>
<tr>
<td>Mold and Mildew resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Vapor Permeability</td>
<td>ASTM E96 Desiccant Method 0.18 perms</td>
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<tr>
<td>Elongation</td>
<td>ASTM D6083/ ASTM D412 up to 1200% at 20 mils DFT</td>
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<tr>
<td>Viscosity</td>
<td>ASTM D2196 5000-6000 #6 Spindle @ 100 rpm</td>
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<tr>
<td>pH as shipped</td>
<td>ASTM E70 9.4-9.9</td>
</tr>
<tr>
<td>Weight per gallon</td>
<td>ASTM D1475 9.23 lbs./gallon</td>
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<tr>
<td>Humidity</td>
<td>Best applied at 50% humidity or below.</td>
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<tr>
<td>Cure time</td>
<td>At 40° - 80° F. 2 to 8 hours. allow 24 hours total curing. For best adhesion allow product to cure for up to 7-10 days.</td>
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<tr>
<td>Adhesion</td>
<td>ASTM D3359 Cross Hatch Adhesion Excellent adhesion to the following substrates: Concrete Plywood Pressure treated Plywood Cedar Galvanized Steel Cold Rolled Steel Treated and Untreated Aluminum</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;200°F (calculated)</td>
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<tr>
<td>Elasto Barrier Primer</td>
<td>Compatible with the following Ames product Topcoats Maximum-Stretch Reflective Coatings Block and Wall Safe-T-Deck</td>
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<tr>
<td>VOC Content</td>
<td>Less than 5 grams per liter.</td>
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REPAIR & MAINTAIN TAR ROOFS WITH AMES 5-COAT

For best results, refer to the sequence and quantity of layers as shown here.
# Product Selection and Application Guidelines

To determine what products you need, you first need to know the condition of your roof. Is it savable? How old is it? Is it leaking? Is it badly or severely deteriorated? What is the size of the roof in square feet? The answers to these questions will help determine the products and quantity you may need.

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal, Tin, Aluminum without Rust</td>
<td>Apply Ames Peel &amp; Stick Seam Tape over seams. Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch over entire roof surface, including seams.</td>
</tr>
<tr>
<td>Metal, Tin, Aluminum with Rust</td>
<td>Prime with Blue Max at 1 gallon per 100 sq. ft. Apply Ames Peel &amp; Stick Seam Tape. Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch.</td>
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<tr>
<td>EPDM</td>
<td>Prime with Ames Blue Max (1-2 gallons per 100 sq. ft). Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch.</td>
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<tr>
<td>Rolled Roofing</td>
<td>If silver coating is on surface, prime with Ames Blue Max (1 gallon per 100 sq. ft). Follow with Maximum-Stretch (2 gallons per 100 sq. ft.). If roof is badly deteriorated, old and leaking, prime with Blue Max (1-2 gallons per 100 sq. ft) and then apply Maximum-Stretch (2 gallons per 100 sq. ft.).</td>
</tr>
<tr>
<td>Built-Up Roofing (BUR)</td>
<td>A minimum of 2 gallons per 100 sq. ft. of Maximum-Stretch if the roof is in good condition and the goal is preventative maintenance. If old and leaking with low areas, then 2–3 gallons per 100 sq. ft. of Elasto-Barrier with an optional reinforcement fabric embedded between Elasto-Barrier layers. Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch.</td>
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<tr>
<td>Tar and Gravel</td>
<td>A minimum of 3 gallons per 100 sq. ft. of Elasto-Barrier followed by 2 gallons per 100 sq. ft. of Maximum-Stretch. Loose gravel must be removed first. Carefully power wash and do not use reinforcement fabric.</td>
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<tr>
<td>Old Tar and Asphalt</td>
<td>Refer to Ames’ Roof Maintenance Coating Systems diagram “Good – Better – Best.” The system you choose will be determined by whether your goal is preventative maintenance or roof restoration. (Note: Elasto-Barrier optionally reinforced with embedded fabric.)</td>
</tr>
<tr>
<td>Modified Bitumen</td>
<td>Apply Ames Peel &amp; Stick Seam Tape on overlap seams. Prime with Ames Blue Max (1-2 gallons per 100 sq. ft.). Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch.</td>
</tr>
<tr>
<td>Cement</td>
<td>If leaking, prime with Ames Blue Max at 2 gallons per 100 sq. ft. Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch. If no leaks, prime with Blue Max at 1 gallon per 100 sq. ft. Follow with 2 gallons per 100 sq. ft. of Maximum-Stretch.</td>
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<tr>
<td>Wood</td>
<td>Ames products can create a water-tight and long-lasting rubber roof over plywood roofs, but you should consult local codes as it is not classified as a primary roof system. However, the products have been successfully used on outbuildings, tool sheds and pump houses with long-lasting results.</td>
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</tbody>
</table>

Do not use on shingle roofs

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