



ERS-600A

P/N: 045-0175

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-600A is a high performance, metal clad, fiberglass-reinforced, styrene-butadiene-styrene (SBS), modified bitumen sheet. Surfaced with embossed aluminum, ERS-600A is designed for torch applications where finished aesthetics and high reflectivity are required.

RECOMMENDED USES:

ERS-600A can be used as a high performance, reflective surfacing sheet in a multiple ply flashing application.

ADVANTAGES:

- Aluminum surface provides a weathering and UV barrier or protection for the membrane's bituminous compounds.
- Weather resistant for long-term performance.
- Excellent cold weather performance.
- Meets or exceeds ASTM D 6298 requirements.
- Meets requirements of Factory Mutual Research Corporation® Standard 4470.
- Classified by Underwriters Laboratories, Inc.® as to an external fire exposure.
- Energy Star compliant.
- Solar reflectance and thermal emittance (emissivity) values in accordance with the Cool Roof Rating Council Product Rating Program.
- Meets Florida Power & Light (FPL) requirements.

APPROVALS:



	Solar Reflectance	Initial 0.87	Weathered 0.72
	Thermal Emittance	0.05	0.10
	Rated Product ID Number	0 0 0 8	
	Licensed Seller ID Number	0 8 6 6	
	Classification	Production Line	

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.
Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

INSTALLATION:

Surface Preparation: The surface over which sheet is to be installed must be firm, dry, smooth and compatible with the membrane and application method, free of debris, loose or combustible material. All surfaces must be designed and installed in accordance with Ecology's specifications. Positive drainage is required. Apply ERS-301 to all metal, concrete and other porous surfaces and allow to dry prior to installation of the flashing. Never torch directly to combustible materials.

Application:

1. Calculate the length of membrane required in order to cover the flashing or curb.
2. Use 39" wide (roll widths) strips of membrane cut from length of roll and install using the strapping technique to cover the vertical flashing area of the wall or curb. Overlap the smooth selvage with each piece – creates a vertical lap every 39".
3. The joints of the membrane covering the deck should be staggered so that the membranes covering the vertical face of the parapet or curb do not coincide with those covering the deck.
4. Dry fit flashing pieces.
- 5.
6. Note: If the bottom edge of the flashing is to be adhered to a granule surfaced modified bitumen field sheet, the granules in the lap areas of the field sheet must be embedded:
 - Using a chalk line, lay out a straight line on the field membrane ply surface, parallel to the roof edge, six (6) inches inside the roof from the base of the previous base-flashing ply installed.
 - Using a torch and heated flat trowel, embed the surface granules into the heated and soft bitumen from the chalk line toward the flashing area. Note: this embedment procedure may also be accomplished through the use of granule embedment tool.

7. Solidly torch surfacing ply of ERS-600A over the previously installed base ply or plies. Always work from the 3" selvedge. Using a damp sponge, apply pressure to the membrane to assure that it has made full contact with the substrate. Care should be taken not to deform the waffle pattern. When preparing an outside or inside corner where membrane will lap over the metal surfacing, the metal surfacing must be removed by the following procedure before welding membrane to itself:
8. Carefully score the metal surface with a sharp utility knife along the outer edge of area where metal is to be removed and bitumen is to be exposed (use straight blade, not hooked). Care must be taken to cut only through the metal – not through the membrane fabric reinforcement.
 - Lightly warm the surface of the metal to be removed using a torch enough to loosen the bond between the metal and bitumen. Care must be taken to not overheat this area or scorching adjoining area of finished surfaces.
 - Immediately after warming surface of metal, carefully peel off metal to be removed. Additional warming and cutting may be necessary. To facilitate, warm the metal as you peel away metal.
9. Ensure the two membranes are perfectly welded without air pockets, wrinkles, fishmouths or tears.
10. After installation of the top ply, probe all lap seams for proper bond.
11. During installation, avoid asphalt seepage greater than 1/4" at seams.

PACKAGING:

ERS-600A comes in a 39" x 33' roll; 25 rolls per pallet.

STORAGE:

One (1) year from date of shipment when stored in a cool, dry place, preferably indoors.

PRECAUTIONS:

- Do not overheat material; scorch marks indicate overheating which can cause foil delamination. Once delaminated, foil cannot be re-adhered. The delaminated area must be removed and new membrane installed.
- Do not apply with hot applied bitumens or cold applied adhesive.
- Do not torch directly to isocyanurate, styrene, fiberglass, phenolic, fiberboard or foam glass insulations, or any other combustible material.
- Protect all components of Ecology's assemblies from discharges such as petroleum products, grease, oil (petroleum and vegetable) and constant contact with water in excess of 140°F (60°C).
- When ambient temperatures are below 50°F (10°C), material should be kept in a warm area (60°F (15.6°C) or higher) and brought to the roof no more than one hour prior to the application.
- When seaming to granule surfaces such as field membrane, the granules must be worked down into the sheet so as to provide a smooth and relatively granule free surface within the seam. The trowel should be used to direct the torch flame to the areas to be embedded, and then the area should be smoothed with the face of the heated trowel or embedding tool.
- Do not apply directly to the following surfaces unless they are primed with ERS-301 (asphalt primer): Gypsum, Stucco, Textured Masonry, any Metal.
- Flashing membranes shall be cut, properly heated and flopped (torch and flop) into place. Do not smooth with hands, but use a damp sponge. Where angles occur, the torch and flop method may create a void at the angle change unless carefully smoothed in with a damp sponge.
- Copper flanges may be weathered or coated with an anti-tarnish lacquer, which impair adhesion. Clean with acetone and clean rags. Prime with ERS-301 (asphalt primer) before applying flashing membrane.
- Do not apply torched membranes directly to fresh mopping asphalt with asphalt mastic, as poor adhesion will result.

PHYSICAL PROPERTIES: (Typical Value)

Physical Property per ASTM D 6298	MD	XD
Tensile – Max Load at 0 ± 3.6°F lbf/in	200	175
Elongation at 0 ± 3.6°F %	12	10
Tensile – Max Load at 73.4 ± 3.6°F lbf/in	136	134
Elongation at 73.4 ± 3.6°F %	8	8
Tear Strength at 73.4 ± 3.6°F lbf	130	130
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.2	<0.2
Compound Stability Temp °F	225	225

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