



ERS-476

P/N: 045-0020

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-476 is 108 mils (2.7 mm) thick and is composed of selected SBS modified bitumen applied onto a non-woven polyester reinforcement with a self-adhesive bitumen on the underside and a sanded top surface. ERS-476 is adhered to a properly prepared, clean, dry, and primed (where required) substrate by self-adhered application method.

Optional inner ply(s) or the field cap membrane ply may be bonded to the properly prepared, clean, dry ERS-476 top surface with the hot asphalt, cold adhesive, or self-adhered application methods. The sanded surface of the ERS-476 base membrane must be primed prior to application of a self-adhered ply or cap membrane.

RECOMMENDED USES:

ERS-476 can be used as part of a high performance SBS modified bitumen roof system utilizing hot applied adhesives or torch welding methods. It can also be used as a base flashing membrane for new construction and remedial or maintenance applications. Must be covered with a suitable finishing top sheet or properly coated.

ADVANTAGES:

- Weather resistant for long-term performance.
- Excellent cold weather performance.
- Contains no asbestos.
- Uniform layer of protection provided by quality control during manufacture.
- Meets or exceeds ASTM D 6164, Type I, Grade (S) requirements.
- Meets requirements of Factory Mutual Research Corporation® Standard 4470.
- Classified by Underwriters Laboratories, Inc.® as to an external fire exposure.

APPROVALS:



INSTALLATION:

Surface Preparation: The surface over which the sheet is to be installed must be firm, dry, smooth and compatible with the membrane and application method and free of debris and loose material. All surfaces must be designed and installed in accordance with specifications. Positive drainage is required.

Application: Apply ERS-301 (asphalt primer) to all metal, concrete, and other porous surfaces and allow to dry prior to installation of the roofing membrane and flashing.

Roofing shall commence at the lowest point of the roof (running rolls perpendicular to the slope) with laps installed so that water flows over, rather than against, the lap. On inclines exceeding 1" per foot, the membrane may be installed with side laps running parallel to the direction of the roof slope (strapping method).

Side laps shall be 3" and end laps a minimum of 6". End laps must be staggered a minimum of 3'.

COVERAGE:

Lapping width determines actual coverage of roll – i.e., 3" side and 6" end laps provide approximate coverage of 1.47 squares.

PACKAGING:

ERS-476 comes in a 39" x 49' roll; 20 rolls per pallet.

STORAGE:

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

PRECAUTIONS:

- 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).
- Do not apply directly to previously coated surfaces or existing mineral surface roofs. The use of a mechanically attached insulation or base sheet separator is required.
- 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.
- Do not apply directly to the following surfaces unless they are primed with ERS-301 (asphalt primer): Gypsum, Stucco, Textured Masonry, any Metal.
- 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 use mastic behind Ecology's torch grade membranes.

PHYSICAL PROPERTIES: (Typical Value)

Physical Property per ASTM D 6164, Type I, Grade S	MD	XD
Tensile – Max Load at 0 ± 3.6°F lbf/in	117	83
Elongation at 0 ± 3.6°F %	29	22
Tensile – Max Load at 73.4 ± 3.6°F lbf/in	70	70
Elongation at 73.4 ± 3.6°F %	56	61
Tear Strength at 73.4 ± 3.6°F lbf	120	87
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.5	<0.5
Compound Stability Temp °F	230	230
Granule Embedment g/max	NA	NA

Minimum values before and after heat conditioning.

Ecology Roof Systems®

Corporate Offices

9821 Olde Eight Road, Unit F, Northfield, OH 44067

PHONE: 330-467-4220 FAX: 330-467-4225

www.ecologyroof.com

REGIONAL OFFICES LOCATED ACROSS THE U.S.

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