



PRODUCTS FOR OUR ENVIRONMENT

## TECHNICAL DATA SHEET

### ERS-580 GR

P/N: 045-0150

For Professional Use Only



#### PRODUCT DESCRIPTION:

ERS-580 GR is 200 mils (5.0 mm) thick and is composed of selected SBS modified bitumen applied onto a non-woven polyester reinforcement with a film on the underside and colored granules topside. ERS-580 GR is adhered to a properly prepared, clean, dry and/or primed (where required) base ply or substrate by using the heat welding application method.

#### RECOMMENDED USES:

ERS-580 GR can be used as part of a high performance SBS modified bitumen roof system utilizing torch welding methods. It can also be used as a flashing membrane for new construction and remedial or maintenance applications.

#### 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 II, Grade (G) requirements.
- Meets requirements of Factory Mutual Research Corporation® Standard 4470.

#### APPROVALS:



**INSTALLATION:** Caution – if your torch experience has been with APP membranes only, be advised that torch grade (TG) SBS membranes require less heat to reach proper application temperature. Practice on scrap membrane before installing.

**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. **Never weld directly to combustible materials.**

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 .76 squares.

#### PACKAGING:

ERS-580 GR comes in a 39" x 26' roll; 25 rolls per pallet.

**STORAGE:**

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

**PRECAUTIONS:**

- If your torch experience has been with APP membranes only, be advised that torch grade SBS membranes require less heat to reach proper application temperature.
- 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 II, Grade G	MD	XD
Tensile – Max Load at 0 ± 3.6°F lbf/in	187	150
Elongation at 0 ± 3.6°F %	34	38
Tensile – Max Load at 73.4 ± 3.6°F lbf/in	175	133
Elongation at 73.4 ± 3.6°F %	53	57
Tear Strength at 73.4 ± 3.6°F lbf	202	156
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.1	<0.1
Compound Stability Temp °F	230	230
Granule Embedment g/max	0.8	0.8

Minimum values before and after heat conditioning.

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