



## ERS-556 GR FR

P/N: 045-0130

For Professional Use Only



### PRODUCT DESCRIPTION:

ERS-556 GR FR is 155 mils (3.9 mm) thick and is composed of selected SBS modified bitumen applied onto a non-woven fiberglass composite reinforcement and is produced with a high brush sanded underside and topside as a field base membrane ply. The sanded base membrane ply is adhered to a properly prepared or primed substrate (where required) by using hot asphalt or cold adhesive. The properly prepared high brush sanded surface on the base membrane ply topside allows for inner ply or cap sheet membranes to be bonded either by hot mopping, cold adhesive, or heat welding application methods. ERS-556 GR FR meets ASTM D 6162, Type III, Grade G.

### RECOMMENDED USES:

ERS-556 GR FR can be used as a weather resistant top ply and may be installed using ERS-All Temp asphalts or, where a cold applied system is required, ERS-302 or ERS-309.

### ADVANTAGES:

- May be applied by either hot mopping with asphalt or with cold applied adhesives.
- Weather resistant for long-term performance.
- Excellent cold weather performance.
- Uniform layer of protection provided by quality control during manufacture.
- Meets or exceeds ASTM D 6162, Type III, Grade (G) 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 roof surface must be free of dust, dirt or moisture before applying ERS-556 GR FR. Light priming with ERS-301 (asphalt primer) may be required if any surface weathering has occurred on the previously installed ply sheets.

**Application:** ERS-556 GR FR shall be applied free of buckles, wrinkles or voids. Sheet shall be applied over and parallel to the underlying roofing and lapped so that the flow of water is over or parallel to, but never against, the laps.

ERS-556 GR FR shall be lapped with 3" side laps and 6" end laps. End laps shall be staggered a minimum of 3'. Install at hot asphalt's EVT. Asphalt temperature should not exceed 475°F (246°C) at point of application. A maximum mop lead of 5' starting away from the roll is recommended. Lightly broom plies from unmapped side to ensure complete adhesion. Tie-in previous days work with a 24" lap. Stagger ends 3' minimum or when end laps are in line cover with a full width of ERS-556 GR FR. Avoid walking on plies until adhesive has cooled. Install flashings as specified.

Embed loose granules into overrun of molten asphalt or adhesive where aesthetic improvement is desired.

While typically run perpendicular to the slope (parallel to ridge) when installed in hot asphalt, it is recommended that when cold applied adhesive is used, the membrane always be run parallel to the slope (strapping method). On inclines exceeding 1" per foot (regardless of adhesive type), the membrane should be installed with side laps running parallel to the direction of the roof slope (strapping method) and insulation stops and backnailing are required. If a black mineral surfacing is specified, back nailing is required on slopes in excess of 1/2" in 12". Type IV asphalt is recommended for all black mineral surfaced membrane applications or any hot application with a slope of 1" in 12" or more.

Flashing: When installed as the surface ply of base flashing, use hot asphalt or ERS-300 (asphalt mastic) as adhesive.

**COVERAGE:**

Each roll is 107 sq.ft. Lapping width determines actual coverage of roll – i.e., 3” side and 6” end laps provide actual coverage of .975 squares.

**PACKAGING:**

ERS-556 GR FR 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 apply directly to previously coated surfaces without conducting an adhesion test. The use of a mechanically attached insulation or base sheet separator is recommended.
- 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.
- 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 and flopped into place where transition angles are involved.
- 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 flashing membranes directly to fresh mopping asphalt with ERS-309 or asphalt mastic, as poor adhesion will result.

**PHYSICAL PROPERTIES: (Typical Value)**

Physical Property per ASTM D 6162, Type III, Grade G	MD	XD
Tensile – Max Load at 73.4 ± 3.6 °F lbf/in	700	750
Elongation at 73.4 ± 3.6 °F %	5.9%	6.0%
Tear Strength at 73.4 ± 3.6 °F lbf	1,300	1,400
Low Temperature Flex °F max	-13	-13
Dimensional Stability % max	<0.5	<0.5
Compound Stability Temp °F	250	250
Granule Embedment g/max	<2.0	<2.0

Minimum values before and after heat conditioning.

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