



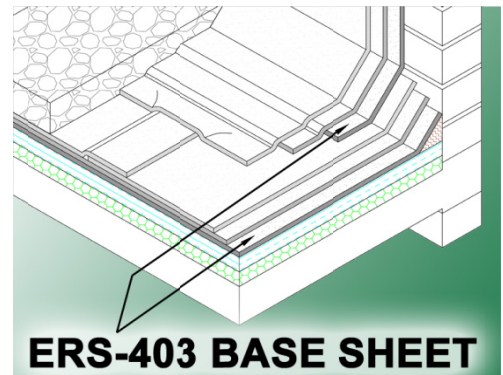
PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-403

P/N: 045-0010

For Professional Use Only



ERS-403 BASE SHEET

PRODUCT DESCRIPTION:

ERS-403 is a uniquely designed SBS (Styrene Butadiene Styrene) modified, asphalt-coated, polyester roofing sheet. SBS modifiers provide excellent weathering and heat stability characteristics, and are used in applications requiring the highest levels of performance. ERS-403 provides excellent elongation and tensile properties, as well as superior characteristics when subjected to stresses. It also offers superior tear and puncture resistance.

RECOMMENDED USES:

ERS-403 can be installed with Ecology's ERS-All Temp or ERS-Hot Flex Modified Asphalt. It can also be nailed with approved fasteners using specified fastening patterns. This roll good can also be installed with Ecology's low VOC cold process adhesives (ERS-302 or ERS-309) and can be incorporated into Ecology's built-up and modified membrane roof specifications.

ADVANTAGES:

- Utilizes a roofing-dedicated asphalt to ensure premium roof system performance and durability.
- May be applied either by hot or cold adhesive.
- Rubber modified coating for superior long-term performance.
- Excellent tensile and elongation properties.
- Classified by Underwriters, Inc.® as to an external fire exposure only.
- Approved by Factory Mutual Research Corporation® per FM Standard 4470.

APPROVALS:



INSTALLATION:

Surface Preparation: In accordance with the particular job specifications, prepare the job prior to installing membrane system:

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation and/or protection course.

Application: As a Ply Sheet: Plan placement of ERS-403 to ensure that water will flow over or along, but not against exposed edges. Starting at a low point of roof, apply uniform and continuous application of the specified hot or cold adhesive using standard roofing equipment, mop or approved felt layer – a Garlock Universal is recommended. To start and finish roof membrane along edges, terminations and projections, use starting/finishing strips: 13-1/2" and 27" wide plies for 3-ply membrane.

Install ERS-403 in a shingle fashion. Overlap starter strips with first ply, then overlap each succeeding ply 27" for 3-ply system. Four ply membranes can also be constructed. Ply sheets are marked for 4-ply construction.

Embed each ply in uniform and continuous application of specified hot melt or approved cold applied adhesives. Ply shall never touch ply. Stage roof installation activities to avoid point loading within the membrane adhesive layer.

IMPORTANT: Install at hot asphalt's labeled EVT. Asphalt temperature should not exceed 475°F at point of application. A maximum mop lead of 5 feet, starting away from roll is recommended. Keep visible "bead" of hot melt in front of roll. Lightly broom plies from unmapped side to ensure complete adhesion. Lap ply sheet ends 6". Stagger end laps 4' minimum or when end laps are in line, cover with a full width of ERS-403. Avoid walking on installed membrane until adhesive has cooled or set. Install flashings as specified. Tie-in previous day's work with a 24" lap.

As a Base Ply: Plan placement to ensure water will flow over or along, but not against exposed edges. As a base ply, ERS-403 may be nailed over nailable decks by using approved fasteners. Lap each sheet 2" over preceding sheet, nailing at lap no less than 9" O.C. and stagger-nailing 18" O.C., 13-3/4" in from edge. Allow 6" staggered end laps for each ply. As a mopped in place base sheet, place ERS-403 into full moppings (25 lbs. \pm 25%) of the specified asphalt providing 4" side laps and 6" end laps.

IMPORTANT: Use same criteria when hot mopping base ply with asphalt as previously indicated for ply sheet application.

NOTE: Roof replacement usually involves more complexities than new construction roofing. Such contingencies as rusted or deteriorated decks, rotted wood components, rooftop equipment that cannot be moved or shut down, and numerous other conditions are often encountered. The application information provided here is designed to serve only as a general guide.

Cold Adhesive Application: Reference application instruction section of ERS-302 or ERS-309 Technical Data Sheets.

Structural Decks: Deck must be properly designed and structurally sound.

Drainage: Ponding conditions are unacceptable and will adversely affect performance of any roofing system.

COVERAGE RATES:

Each roll is 220 square feet in size. Lapping width determines actual coverage of roll (i.e. 4" side and 6" end laps provide actual coverage of 200 square feet).

PACKAGING:

2 square rolls; 39-1/2" wide by 67' long – 30 rolls per pallet.

STORAGE LIFE:

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

PHYSICAL PROPERTIES:

Test	Typical Value	Test Method
Tensile Strength @73°F (23°C) (lbf/in)	MD 115 XMD 80	ASTM D 146
Elongation @ 73°F (23°C) (%)	45 – 55 MD 45 – 55 XMD	ASTM D 146
Tear Strength (lbf)	115 – 125 MD 85 – 95 XMD	ASTM D 4073
Asbestos Content	0%	EPA 600/R-93/116
Thickness (mils)	60 mils	ASTM D 1777
Pliability	Pass	ASTM D 146
Asphalt (% of weight)	45 – 50	ASTM D 146
Surfacing & Stabilizer	10 lbs/100ft ²	ASTM D 146
Roll Dimensions	39-1/2" x 67'	ASTM D 146
Reinforcement weight (lbs/100 sq.ft.)	3.7 – 3.9	ASTM D 146

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