



PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-Polyester 250

P/N: 050-0020

For Professional Use Only



Hot-Applied Uncoated Polyester

PRODUCT DESCRIPTION:

ERS-Polyester 250 represents a significant step forward in the technology of built-up roofing ply sheets. Finished membrane assemblies of ERS-Polyester 250 offer high strength and long-term performance in addition to superior elongation and recovery properties. ERS-Polyester 250 is an excellent choice for use with high performance modified mopping asphalts but can also be used with coal tar pitch products and standard asphalts.

RECOMMENDED USES:

ERS-Polyester 250 can be used as a high performance ply sheet to provide the maximum fatigue resistance available in a composite roof membrane, especially at insulation joints which is a primary cause of membrane failure. It can also be used to construct high performance base flashing systems.

ADVANTAGES:

- Contractor friendly for ease of application
- Finished membrane provides excellent elongation and recovery to accommodate roof movement
- Exceeds proposed industry criteria for load-deformation properties and retention of watertightness
- Toughness properties provide added performance in areas of wear
- Exceeds requirements of ASTM D 5726, Type II

INSTALLATION:

Surface Preparation: Surface must be clean and dry. Prior to the installation of the roof membrane, apply ERS-403 base sheet in drain recess and sump areas using ERS-300 mastic to seal the insulation and close the drain opening so no bitumen gets to the leaders.

Application: For a uniform interply mopping, bitumen must be applied within the recommended EVT range. By applying the bitumen within the EVT temperature range (never over 475°F (246°C)) and brooming lightly in the roll direction during application, the proper application rate will be achieved and will result in proper ply lamination.

It is important to avoid point-loading during the time of application, as it may displace the interply moppings from between the reinforcing plies. Every effort should be made to allow the waterproofing bitumen to take a set before being exposed to traffic, either with foot or wheeled implement traffic. An adhered, coated base sheet is recommended to minimize the possibility of bitumen displacement from applicator errors and is required at drain bowls.

When access to the work area is limited and standard application starting from the low point will create traffic over the newly layed plies, it may be necessary to change the typical ply sheet layout and starting points; such as, running plies parallel to the direction of the roof slope (strapping method).

Run starter strips (headers) and finish strips parallel to parapet walls and perimeter details that are aligned with the felt direction. Use a paint roller or soft broom to embed ERS-Polyester 250 from deck side of roll. Do not roll out from behind roll. Because asphalt obscures lap lines and back edge of lower ply, it may be necessary to chalk line the deck (or insulation) side to maintain alignment. End laps should be a minimum of 6" and staggered a minimum of 4 feet. When end laps are in line, cover with a full width of ERS-Polyester 250. Keep equipment off the finished roof surface. Finishing strips should be run parallel to expansion joints or any penetrations through the membrane.

During installation, uncoated polyester membranes should be glazed or flood and graveled daily.

Flashings: Organic felts or ERS-403 must be used for envelopes.

Flashings: Use 40" felt layers such as the Garlock Aluminum U100 (Universal) Felt Layer (no chain mops); Note – ERS-Polyester 250 roll is 15" in diameter and will require a roller cradle – Garlock part number 403881; Mops – use nylon or cotton. **COVERAGE:**

One roll of ERS-Polyester 250 covers 10 squares (1,000 square feet).

PACKAGING:

ERS-Polyester 250 is available in a 39" x 333' roll – 10 squares (990.6 mm x 101,498 mm); 20 rolls per pallet.

STORAGE LIFE:

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

PRECAUTIONS:

- Light brooming of ERS-Polyester 250 is recommended. Run the soft broom in the roll direction while standing on the insulation or deck side.
- Throw of the mop should be limited to 10 – 12' to ensure adequate supplies of bitumen are installed in front of reinforcing roll. In cool weather, a 5 – 8' throw is recommended.
- Fishmouths and wrinkles cannot be walked down. These defects must be physically cut and then patched with polyester fabric. One-ply repair required.
- Bitumen must be no hotter than 475° (246°C) when embedding ERS-Polyester 250. Place mop at least 5 feet from roll and pull towards roll.
- During installation, uncoated polyester membranes should be glazed or flood and graveled daily.

PHYSICAL PROPERTIES:

Property	Typical Value	Test Method
Breaking Load (Strip)	110 lbf/in. MD 80 lbf/in. XMD	ASTM D 5726
Elongation (Strip)	40% MD 45% XMD	ASTM D 5726
Breaking Strength (Grab)	275 lbf. MD 230 lbf. XMD	ASTM D 5034
Elongation (Grab)	41% MD 47% XMD	ASTM D 5034
Tear Strength	70 lbf. MD 60 lbf. XMD	ASTM D 5726
Weight	7.4 oz/yd ²	ASTM D 3776
Thickness	45 mils	ASTM D 1777
Asbestos Content	0%	EPA 600/R-93/116

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