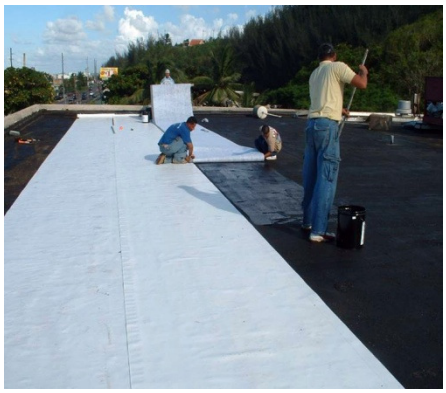
PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-8000-FB

P/N: 025-0005
025-0006
025-0007

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-8000-FB is a polyester reinforced, fleece-backed, white thermoplastic surface membrane formulated with DuPont Elvaloy (KEE-Ketone Ethylene Ester). Designed to perform even in the most hostile environments, ERS-8000-FB features excellent impact and tear resistance, superior solar reflectance, exceptional chemical resistance, and sustainability.

RECOMMENDED USES:

ERS-8000-FB can be used wherever a high performance, chemical resistant, Energy Star compliant, cool roof design is desired. It may be fully adhered by hot mopping with asphalt or with cold applied ERS-8002 substrate adhesive.

ADVANTAGES:

- Highly reflective white color can significantly reduce cooling loads especially in hot and dry climates.
- Highly chemical resistant.
- Polyester reinforced to provide excellent puncture and tear resistance.
- Compatible with asphalt. Fleece backing facilitates adhesion.
- Contains no VOC's.
- Seams are heat welded.
- Installs in hot asphalt.
- Classified by Underwriters Laboratories, Inc.® as to an external fire exposure.
- Meets requirements of Factory Mutual Corporation® Standard 4470.
- Solar reflectance and thermal emittance (emissivity) values in accordance with the Cool Roof Rating Council Product Rating Program.
- Polyester fleece-backing is integrated into DuPont Elvaloy® modified compound during the manufacturing process, providing exceptional bond strength.
- Energy Star compliant.
- Meets Florida Power & Light (FPL) requirements.

Why Choose An ENERGY STAR Rated White Reflective Roofing For Your Building?

- ENERGY STAR qualified roof products reflect more of the sun's rays. This can lower roof surface temperature by up to 100°F (37.8°C), decreasing the amount of heat transferred into a building.
- ENERGY STAR qualified roof products can help reduce the amount of air conditioning needed in buildings, and can reduce peak cooling demand by 10–15 percent.

Ecology's ERS-8000-FB is an ENERGY STAR qualified roof product that reflects more of the sun's rays. This can lower roof surface temperature by up to 100F, decreasing the amount of heat transferred into a building. This reduces the amount of air conditioning needed in buildings. Ecology Roof Systems also is knowledgeable in other factors of roofing that can lead to savings including replacing or adding insulation to effectively reduce energy loss/gain into the building envelope.

APPROVALS:

CLASSIFIED C UL US

FM APPROVED

ENERGY STAR

FPL.

CRRC COOL ROOF RATING COUNCIL ®

	Initial	Weathered
Solar Reflectance	0.87	0.76
Thermal Emittance	0.87	0.84

Rated Product ID Number	0001
Licensed Seller ID Number	0866
Classification	Production Line

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

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 to be used and be free of debris and loose material. All surfaces must be designed and installed in accordance with design specifications. Positive drainage is required.

Application: ERS-8000-FB is designed to be installed in hot roofing asphalt with seaming of the membrane completed by hot air welding. Installation of the ERS-8000-FB system shall be in accordance to approved detail drawings, architectural plans and specifications. ERS-8000 Trim Strip is required for ERS-8000 end lap details.

STORAGE LIFE:
One (1) year when stored in a cool, dry area.

PACKAGING:
ERS-8000-FB is available in:
60 mil 76" x 90' roll
60 mil 9 square roll
80 mil 9 square roll

PRECAUTIONS:
Use adequately sized equipment during hot-air welding procedures. All seaming repairs must be performed the same day of installation. Application of ERS-Walk Pads required in traffic areas.

PHYSICAL PROPERTIES:

Property	Test Mothod	Value
Tensile	ASTM-D-638	1710/1830
Elongation @ Break	ASTM-D-751	38 MD/41XD
Elngation After Heat Aging % of Original	ASTM-D-751	94
Break Strength	ASTM-D-751	406 MD/317XD
Break Strength After Heat Aging % of Original	ASTM-D-751	92
Seam Strength	ASTM-D-638	80%
Tear Resistance	ASTM-D-751	120 MD/110 XD
Low Temperature Bend -40°F	ASTM-D-2136	Pass
Accelerated Weathering 10,000 Hours Cracking, Discoloration; Crazing	ASTM-G-53	None
Linear Dimensional Change	ASTM-D-1204	0.05%
Weight Change After Immersion in Water	ASTM-D-570	1.50%
Static Puncture Resistance, 33 lbf (15kg)	ASTM-D-5602	Pass
Dynamic Puncture Resistance, 7.3 ft-lbf (10J)	ASTM-D-5636	Pass
Solar Reflectivity-Initial	CRRC	0.87
Solar Reflectivity-After 3 Years	CRRC	0.76
Emissivity-Initial	CRRC	0.87
Emissivity-After 3 Years	CRRC	0.84
Solar Reflectance Index-Initial	CRRC	110
Solar Reflectance Index-After 3 Years		93

Ecology Roof Systems membranes are thermoplastic in nature and exceed the requirements of ASTM D 6754-02, Standard Specification for Ketone Ehylene Ester Based Sheet Roofing.

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.