

## OVERVIEW & FEATURES

Energizer K Plus FR is a multi-purpose, rubberized, fluid-applied waterproofing membrane designed to restore on existing smooth surfaced SBS, aged APP, and built-up roof surfaces. Energizer is made from the same unique blend of SBS (Styrene-Butadiene-Styrene) rubberized asphalt used in Garland's HPR® modified membranes.

Energizer K Plus FR has the added strength of KEVLAR® incorporated into the coating.

**Long-lasting Waterproofing** - Extend the life of your roof with Energizer K Plus FR, which provides natural resistance to moisture, chemicals, UV, and aging.

**KEVLAR®** - Energizer K Plus FR incorporates KEVLAR aramid fibers which are short, tough, engineered fibers that build enough viscosity to impart superior sag resistance. The KEVLAR aramid fibers also add increased tensile strength, superior UV cracking resistance, and added fire resistance.

**Versatile & User-Friendly** - Energizer is very versatile; it can be used on SBS, APP, and smooth or mineral surfaced asphalt roofs. Energizer can be applied with a brush, squeegee, or sprayed, making it easy for in-house maintenance use. Therefore, there is no need for torches or kettles. Because of Energizer's K Plus FR high solids content, the coating cures quickly. Energizer K Plus FR can be used for smooth roofs and can take a reflective coating within 30 days

## APPLICATION

**Refer to the Energizer Application Guidelines for complete substrate specific repair, preparation and application requirements.**

Ensure that wet conditions do not exist. A moisture survey is required to ensure that all wet insulation is removed and replaced with like kind and thickness. Remove all dirt and debris from the existing roof to ensure proper adhesion. Prime the roof surface with Garland's Garla-Prime® or Garla-Prime VOC at 0.5 gal / 100 sq. ft. (0.20 l/m<sup>2</sup>).

**For Roof Coating** - Slopes are restricted to 3:12 (25 cm/m) @ 77°F (25°C) maximum. Apply Energizer K Plus FR at a rate of approximately 3 gal./100 sq. ft. (1.2 l/m<sup>2</sup>) over the entire roof surface. If granules are to be incorporated, apply them subsequent to the Energizer K Plus FR application. Do not spread minerals over surfaces prior to product application.

When granules are not applied, Energizer K Plus FR must be coated with Garla-Brite, Silver-Shield or Pyramic Plus LO at least 15-30 days after application.

**For Roof Restoration** - Slopes are restricted to 3:12 (25 cm/m) @ 77°F (25°C) maximum. Apply the Energizer K Plus FR at a rate of approximately 6-7 gal./ per 100 sq. ft. (2.4 -2.8 l/m<sup>2</sup>) with Grip Polyester® Firm embedded within the Energizer K Plus FR over the entire roof surface. Please refer to specifications for coverage rates of other surfaces. If granules are to be incorporated, apply them subsequent to the Energizer K Plus FR application. Do not spread minerals over surfaces prior to product application.

When granules are not applied, Energizer K Plus FR must be coated with either Garla-Brite, Silver-Shield or Pyramic Plus LO at least 15-30 days after application.

**NOTE:** Pumping Energizer K Plus FR requires a heat exchange unit, such as the WARM-MASTER®, made by Roof Master, Inc.® Do not use open flame for heating. Energizer can be transferred to roof using conventional spray equipment and allowing it to flow out of the spray wand without the spray tip. It should then be brushed.

## PRECAUTIONS

- Do not apply over wet surfaces
- Please read product label and SDS
- Material should be kept indoors while not in use, do not keep on the roof overnight

# Energizer K Plus FR

Technical Data	Energizer K Plus FR
<b>Non-Volatile</b> (ASTM C 1250)	Typical 80%
<b>Density</b> (ASTM D 1475)	10 lbs./gal (1.21 g/cm <sup>3</sup> )
<b>Viscosity @ 77°F (25°C)</b> (Brookfield RVT, Spindle #5, 50 rpm)	Typical 15,000/25,000 cP
<b>Flash Point</b> (ASTM D 93)	Minimum 100°F (37.7°C)
<b>Elongation @ 77°F (25°C)</b> (ASTM D 412)	Typical 275%
<b>Water Absorption</b>	Less than 0.7%
<b>Compound Stability</b>	Passes 200°F (93.3°C)
<b>Accelerated Weathering Test</b> (Q-UV; UVB-313 bulbs)	Passes 2,000 hrs. exposure
<b>Wet Film Thickness</b> @ 6 gal. (22.7 l)	96 mils (2,438 microns)
<b>Shelf Life</b>	12 months
<b>Packaging</b>	5 gallon pail (18.9 l) 55 gallon drum (208.2 l)

Eco-Facts	Energizer K Plus FR
<b>VOC</b>	250 g/l

## FLUID-APPLIED ROOF RESTORATION COVERAGE RATES

Existing Roof Surface	Final Surface	Gallons per Square w/ Grip Polyester Firm	Liters per m <sup>2</sup> w/ Grip Polyester Firm
Smooth	Coated	3.0/Poly/3.0	1.2/Poly/1.2
Mineral	Coated	3.5/Poly/3.0	1.4/Poly/1.2
Smooth	Mineral	3.0/Poly/3.5	1.2/Poly/1.4
Mineral	Mineral	3.5/Poly/3.5	1.4/Poly/1.4

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.



For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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