



Energizer®

Energizer K Plus FR

PRODUCT DESCRIPTION

Energizer is a multi-purpose, rubberized, liquid waterproofing membrane designed to restore and upgrade fire ratings on existing smooth surfaced SBS, APP, and built-up roof surfaces. It is made from the same unique blend of SBS (Styrene-Butadiene-Styrene) rubberised asphalt used in Garland's HPR modified membranes. Energizer restores the wearing surface of all these membranes and, in some cases, makes it superior to the original wearing surface.

Energizer K Plus FR which has the added strength of Kevlar® incorporated into the coating. Energizer K Plus FR can also upgrade a Class B or C roof to a Class A in some roofing systems.

PERFORMANCE ADVANTAGES

Extended Life Expectancy - When SBS and APP modified membranes were introduced, they extended the life expectancy of the standard BUR. However, like anything else, SBS and APP wearing surfaces degrade over time due to erosion from the elements and UV degradation. Energizer puts back the high performance rubber and restores the wearing surface like new. Energizer is very versatile, it can be used on SBS, APP, and smooth or mineral surfaced asphalt roofs.

Environmentally Safe - Energizer uses very little solvent which gives it V.O.C. approval. When the Energizer cures, it initially looks like hot applied rubberised asphalt. However, there is no need for a torch or hot kettle.

Increases Fire Ratings - Energizer reduces the cost of upgrading Class B or C roofs to Class A by simply coating versus retrofitting. Reduced fire ratings can make a big difference in insurance premiums.

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, as well as added fire resistance.

User Friendly/Saves Money - 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.

Cures Quickly - Because of Energizer's high solids content,

the coating cures quickly. Energizer can be used for smooth roofs and can take a reflective coating within 30 days, compared to up to six months with standard emulsions and solvent based coatings (considering normal weather conditions, i.e., typical 25°C temperatures).

The Ultimate Restoration - For years, solvent and water based coatings were used to successfully protect the wearing surface of BURs. Since high performance membranes are quite common today, a new high performance restoration product is needed. Energizer is the answer to the problem. It is the ultimate roof restoration membrane.

APPLICATION

Ensure that wet conditions do not exist. An Infrared scan is highly recommended. Remove all dirt and debris from the existing roof to ensure proper adhesion. Prime the roof surface with Garland's Garla-Prime. For smooth surfaces, apply the Energizer at a rate of approximately 1.2 l/m² 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 application. Care shall be exerted not to spread minerals over surfaces prior to product application. When granules are not applied, Energizer must be coated with either an aluminiser or white coating at least 30 days after application. Slopes are restricted to 3:12 (25 cm/m) @ 25°C maximum.

- Do not apply over wet surfaces - please read product label and MSDS.
- Material should be kept indoors while not in use. Do not keep on the roof overnight.

Note: Pumping Energizer requires a heat exchange unit, 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.

For specific application recommendations, please contact your regional Garland Technical Manager or the Garland Technical Department.

Energizer

Technical Data	Energizer K Plus FR
Non-Volatile	80% Typical
Ash Content	N/A
Density	1.21 g/cm ³
Viscosity @ 25°C Brookfield RVT, Spindle #5, 50 rpm	Typical, 15,000/25,000 cP
Flash Point	37.7°C
Elongation @ 25°C	275% Typical
Water Absorbtion	Less than 0.7%
Compound Stability	Passes 93°C
Accelerated Weathering Test (Q-UV; UVB-313 bulbs)	Passes 2,000 hrs. exposure
Wet Film Thickness	2,438 microns
Packaging	19l

Eco-Facts	Energizer K Plus FR
VOC	270 g/l

COVERAGE

Existing Roof Surface	Final Surface	Litres per m ² w/ Polyester Firm
Smooth	Smooth	1.2/Poly/1.2
Mineral	Smooth	1.4/Poly/1.2
Smooth	Mineral	1.2/Poly/1.4
Mineral	Mineral	1.4/Poly/1.4



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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 Garland Regional Technical Manager or the Garland Technical Department for more information.

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