Garlastic® KM Plus

since 1895

OVERVIEW & FEATURES

Garlastic KM Plus is a proprietary high-grade, SEBS (Styrene-Ethylene-Butylene-Styrene) modified roofing interply adhesive and waterproofing asphalt. It offers an exceptionally high
softening point and a correspondingly high penetration index to ensure greater flexibility at low ambient temperatures when compared to conventional roofing asphalts.

This unusual combination of broad performance benefits provides a polymeric asphalt that is ideal for climates that experience extreme temperature fluctuations. One of the major benefits of Garlastic is its extended service life.

Increases Tensile Strength - Garlastic dramatically increases the tensile strength and elongation properties of the roofing membrane due to the inherent properties of the SEBS rubber.

Remains Flexible – Unlike normal asphalt, which begins to harden and degrade as soon as it is applied, Garlastic stays flexible for a long period of time

Extremely Durable – Its broad application temperature range ensures excellent bonding and durable seams.

Adapts to Roof Stresses – The elasticity provided by the addition of rubber elastomers allows the system to respond more positively to roof stresses. This occurs over a wide range of surface temperatures while continuing to provide good waterproofing, puncture resistance, abrasion resistance and UV resistance.

Asphalt	Garlastic KM Plus
Excellent Waterproofing	Excellent Waterproofing
Multi-ply Systems	Multi-ply Systems
Potential To Flow At High Temperatures	Flow Resistant At High Temperatures
Plastic Properties	Elastic Properties
Permanent Deformation Due To Thermal Movement	Significant Recovery During Thermal Movement
Questionable Low Temperature Properties	Excellent Low Temperature Properties

APPLICATION

Garlastic functions as both the interply adhesive and underlayment in a wide variety of multi-ply BUR configurations with HPR Glasfelt, HPR Premium Glasfelt, and HPR Polyscrim. It can also be used as the interply adhesive for all Garland standard HPR modified membranes and can be applied as a protective flood coat for a standard BUR system. Garlastic is compatible with all hot-applied roofing products.

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Technical Data	Garlastic KM Plus
Flash Point (ASTM D 92)	500°F (260°C) min.
Softening Point (ASTM D 36)	203°F to 221°F (95°C to 105°C)
Penetration @ 77°F (25°C) (ASTM D 5)	30-70 units
Ductility at 77oF (25°C)	50 cm min.
Elongation at 77oF (ASTM D 412)	750% min.
Elastic Recovery (ASTM D 412)	80% min.
Solubility (ASTM D 2042)	99% min.
Flexibility (2 mm thick, 180 degree bend, 1 sec) (ASTM D 3111)	0°F (-18°C) Pass
Density @ 77°F (25°C) (ASTM D 113)	8.3 lbs./gal (1.0 g/cm3)
Maximum Safe Heating Temp.	500°F (260°C)
Recommended Application Temp.	400°F to 475°F (204°C to 246°C)
Coverage	
Interply	25 lbs. per 100 sq. ft ± 25% (1.3 kg/m2 ± 25%)
Flood Coat with Gravel	60 lbs./100 sq. ft. ± 25% (3.1 kg/m2 ± 25%)
Packaging	50 lbs (22.68kg) keg
Shelf Life	24 months

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

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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.