

OVERVIEW & FEATURES

Silver Shield is a premium quality, high solids content, fibrated aluminum roof coating. Silver Shield is formulated with specially selected asphalts, oils and resins to combine the waterproofing capabilities of an asphalt roof coating with the reflectivity of aluminum paint. Silver Shield meets and exceeds ASTM D 2824, Type III.

Saves Energy - A Silver Shield application reduces under roof temperature by 15 ° or more. As a result, the workload on the building's air conditioning system is reduced by as much as one ton per 1,500 ft.² (1 ton (metric)/9.7 m²) so proper interior temperatures can be maintained at lower cost.

Proven Performance - Laboratory tests under conditions far more rigorous than any normal field experience verify Silver Shield's improved performance and longevity. Silver Shield surpassed conventional reflective coatings in bake tests, accelerated weathering, freeze-thaw cycling, flexibility and reflectivity tests.

High Solids Content - Garland selects only the highest grade aluminum flakes and uses more aluminum per gallon in Silver Shield than are used in some competitive comparable coatings.

Easy Application - Silver Shield is a one-step aluminizer. An emulsion base coat and a 30 day drying period are not required. The one coat application saves time and money without sacrificing energy savings.

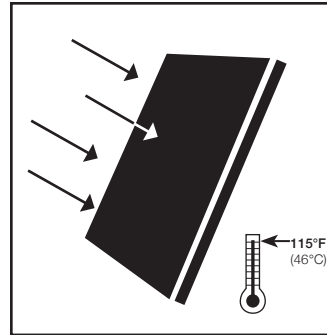
APPLICATION

Sweep off all dirt, dust and debris from the surface to be coated. If the existing roof surface is dried out, prime the surface with Garla-Prime™ .5 gal/100 ft.² (41 l/m²) before applying Silver Shield. Repair any cracks, splits or surface irregularities with Flashing Bond® mastic and GarMesh®.

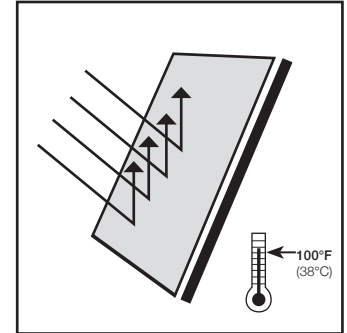
Stir Silver Shield prior to application with a Jiffy Mixer attached to a low speed drill. Mix until the material is consistent. Apply Silver Shield with appropriate squeegee, roller or brush. Avoid over working the material which can interfere with the leafing of the aluminum and cause the material to appear bronze or darker than desired.

Do not apply when the ambient temperature is below 50°F (10°C) or when rain is predicted.

Coverage rates may vary based on surface condition / texture and do not take into account material loss due to spraying, surface texture, surface absorption, waste, etc.



1) Expose a panel of black asphalt roofing to a radiant heat source. Place a thermometer on the opposite side and watch the temperature rise.



2) Then, expose a panel of the same roofing, painted with Silver Shield, to the same heat source. A thermometer on the other side of the panel will show more than a 15° difference in temperature.

Silver Shield®

Technical Data	Silver Shield
Flash Point (ASTM D 93)	100°F (38°C) min
Non-Volatile (ASTM D 6511)	60% min
Density @77°F (25°C) (ASTM D 1475)	8.7 lbs./gal. (1.04 g/cm ³)
Viscosity @75°F (23.8°C); Krebs Stormer (ASTM D 1475)	100-125 KU
Wet Film Thickness @ 2 gal. (7.6 l)	32 mils (812.8 microns)
Drying Time (Typical) @ 70°F (21.1°C); 50% R.H.	10 - 12 hours
Service Temperature Extended Exposure	-20°F to 180°F (-29°C to 82°C)
Effect of Weathering	Slow erosion
Shelf Life	1 year
Coverage	2 gal./ 100 sq. ft. (0.82 l/m ²)
Packaging	5 gal. pail (18.9 l)

Eco-Facts	Silver Shield
VOC	400 gal./l
Reflectance	0.61
Emittance	0.44
SRI	58
Recycled Content Post Industrial	3.34%

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



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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. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

Silver Shield is a trademark of The Garland Company, Inc. The CRRC mark is a registered trademark of the Cool Roof Rating Council

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