

OVERVIEW & FEATURES

Silver Shield is a high-performance, high-solids fibrated aluminum roof coating, expertly formulated with a blend of premium asphalts, oils, and resins. This combination delivers the waterproofing capabilities of an asphalt-based roof coating along with the reflectivity of aluminum paint. Silver Shield meets and exceeds ASTM D 2824, Type III standards.

Saves Energy - Applying Silver Shield can reduce under-roof temperatures by 15°F (8°C) or more, significantly lowering the workload on the building's air conditioning system. This results in a reduction of up to one ton per 1,500 sq. ft. (1 ton (metric) / 9.7 m²), helping to maintain optimal interior temperatures at a lower cost.

Proven Performance - Silver Shield has been rigorously tested in laboratory conditions far more extreme than typical field conditions. It outperforms conventional reflective coatings in key areas, including bake tests, accelerated weathering, freeze-thaw cycling, flexibility, and reflectivity.

High Solids Content - Silver Shield is formulated with premium-grade aluminum flakes and uses more aluminum per gallon than many comparable competitive coatings, ensuring superior reflectivity and durability.

Easy Application - Silver Shield is a one-step aluminizer. The single coat application saves time and money without sacrificing energy savings.

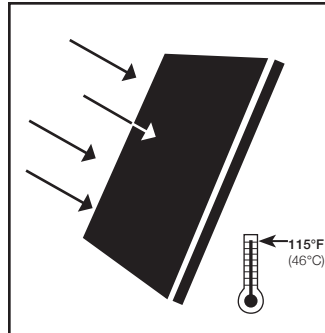
APPLICATION

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™ 0.5 gal./100 sq. ft. (0.41 l/m²) before applying Silver Shield. Repair any cracks, splits or surface irregularities with Flashing Bond® mastic and GarMesh®.

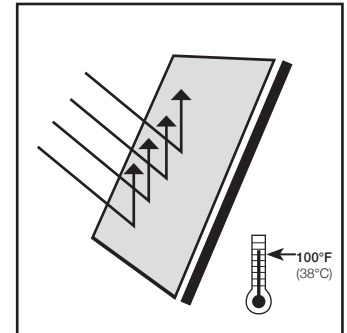
Stir Silver Shield prior to application with a Jiffy Mixer attached to a low speed drill. Mix until the material is consistent. Apply Silver Shield with appropriate squeegee, roller or brush. Avoid over working the material which can interfere with the leafing of the aluminum and cause the material to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

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	32 mils
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	12 months
Coverage	2 gal./ 100 sq. ft. (0.82 l/m ²)
Packaging	5 gal. pail (18.9 l)

Eco-Facts	Silver Shield
VOC	<400 g/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.



0700-0008



For additional Silver Shield documents, scan the QR code above.

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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.

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