

COLUMBIA SILVER SHIELD

COLUMBIA SILVER SHIELD is a highly reflective, asphalt base, non-fibered coating for protecting and beautifying a wide range of roof systems installed in new and existing agricultural, industrial, commercial, and institutional buildings.

INSULATING QUALITIES LOWER ENERGY COSTS

Because of its high reflectiveness, COLUMBIA SILVER SHIELD reflects the radiant heat of the sun rather than allowing it to be absorbed into the roof surface. As a result, interior building temperatures remain cooler and thus more comfortable. Cooler interior temperatures mean lower energy costs since air conditioning units do not have to work as often or as hard during the summer months. Also, because COLUMBIA SILVER SHIELD has a low rate of emissivity, it acts as an extra layer of insulation helping prevent radiant heat from escaping from the roof resulting in lower heating costs during the winter season.

EXTENDS ROOF LIFE

One of the most harmful elements to the life of any roof system is the ultraviolet rays of the sun. If you can keep the sun off of a roof, its life would be extended indefinitely. Since COLUMBIA SILVER SHIELD reflects up to 75% of the harmful ultraviolet rays, roofs last longer. On metal roofs, expansion and contraction is reduced considerably helping maintain watertight integrity on both fasteners and seams. On built up systems, the ultraviolet rays do not have an opportunity to oxidize the asphalt, drying it out and robbing



it of waterproof oils. Here again, this results in more flexible watertight roofs that last longer.

COST EFFECTIVE

Because it is non-fibered, COLUMBIA SILVER SHIELD covers three to four times that of fibered coatings. A normal rate of coverage is between 250 and 300 square feet per gallon. Less product is required when COLUMBIA SILVER SHIELD is used resulting in a lower material cost per square (100 square feet).

COLUMBIA SILVER SHIELD also offers a cost advantage compared to paint on metal buildings. Due to superior penetration and flexibility, COLUMBIA SILVER SHIELD can be applied to rusty metal without a primer, saving on both labor and material.

IMPROVES PROPERTY APPEARANCE

Roofs coated with COLUMBIA SILVER SHIELD look better. Unsightly rust on metal roofs is no longer a problem. COLUMBIA SILVER SHIELD makes old

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roofs look new adding to the overall image of the company or building.

THE COLUMBIA DIFFERENCE

The quality and price of non-fibered roof coatings varies greatly. COLUMBIA SILVER SHIELD is made from a high quality pre-oxidized asphalt. The asphalt is protected by three pounds of a fine flake aluminum paste per gallon for multiple layers of protection. An additive that is exclusive to the Columbia brand is used to promote a brighter, more uniform appearance. The result is greater durability and superior color retention.

SURFACE PREPARATION

All roofs to be coated with COLUMBIA SILVER SHIELD should be fully cured, dry, and free of all dust, dirt, grease, oil, and any other debris. Roofs must also be in leak-free condition. Metal roofs should be power washed and/or sandblasted to remove any oily film and loose, scaly, flaking rust. All solvent-based roof coatings applied should be allowed to cure at least 90 to 120 days. Emulsions should cure a minimum of 30 days prior to applying COLUMBIA SILVER SHIELD.

APPLICATION

COLUMBIA SILVER SHIELD must be mixed thoroughly prior to application in order to keep the aluminum flakes in suspension. It is also a good idea to stir occasionally during application. Do not thin. The product can be applied with a brush, roller, or power spray equipment at the rate of 1/3 gallon per 100 square feet. Precautions should be taken when spraying on windy days.

APPLY TO

Metal roofs that are in a leak free condition. Also, highly effective on smooth asphalt roofs with a slope greater than 1" per foot with no ponding water. Especially recommended as a finish coat over COLUMBIA BLACK FIBRE COATING.

LIMITATIONS

Should not be applied to dead level roofs, tar roofs, or roofs that pond water. Apply only to roofs that are watertight and in good condition. Not intended for roofs that are leaking.

PRODUCT BENEFITS

- ✓ Reduces expansion and contraction
- ✓ Saves energy costs by keeping building interior temperatures cooler
- ✓ Reflects harmful rays of the sun
- ✓ Keeps asphalt (bitumen) from drying
- ✓ Leafing action of aluminum flake provides a shield of protection
- ✓ Economical and easy to apply—250 to 300 square feet per gallon
- ✓ Improves building appearance

TYPICAL CHARACTERISTICS

Total Solids	51% by weight
Aluminum Paste	3 lb./gal.
Asphalt Solids	27% by weight
Asphalt	ASTM D41
Density	9.2 lb./gal.
Specific Gravity	1.1
Flash Point	102
Viscosity	60 KU
Dry Film Thickness (300-ft. ² /gal.)	2 mils
Heat Reflectiveness	Lowers interior temperatures up to 15°
UV Reflectiveness	Up to 75%
Drying Time	
To touch	4 hours
Complete	24 hours
Cleanup	Mineral Spirits