

LUCAS *Coatings & Mastics for the Roofing Trade*

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PRODUCT DATA BULLETIN

#637 ELASTOMERIC ALUMINUM ROOF COATING

PURPOSE

Styrene Butadiene Styrene (SBS) polymers have been used successfully for many years to modify asphalt for use in roofing and waterproofing. SBS polymers have the unique ability to form a network within the asphalt which modifies its behavior. The asphalt becomes elastomeric, or rubber-like, with the ability to stretch and recover in response to building movement and rapid changes in temperature. #637 Elastomeric Aluminum Roof Coating combines the advantages of modified asphalt with the reflective, UV blocking abilities of leafing aluminum pigments. Aluminum pigmented coatings can substantially reduce interior building temperature and prolong roof service life. Polymer modified asphalts also provide much greater resistance to moisture and will perform better than standard Aluminum Roof Coatings in areas of ponded water. #637 may be used on asphalt, metal and modified bitumen roofs. This product provides an ideal surfacing for SBS modified bitumen as the coating will form a cohesive molecular bond with the polymer modifiers in the roof membrane.

PRODUCT DESCRIPTION

Lucas #637 Elastomeric Aluminum Roof Coating is formulated from specially refined asphalt, SBS polymers, aromatic and aliphatic solvents and leafing aluminum paste. Formulated to spread easily and evenly by brush, roller or spray.

APPLICATION

Surface to be coated must be dry and free of dirt or corrosion particles. Low areas of the roof must be given special attention as surface contamination collected in these areas will interfere with adhesion and cause coating failure. **MECHANICALLY MIX** coating thoroughly and continuously before and during application. Apply evenly with a soft bristle brush, roller or suitable spray equipment at the rate of one and one-half to two gallons per 100 square feet. For best results, brush coating in one direction with the slope of the roof. Do not apply over fresh roof repairs or coating. Roofing asphalts should be allowed to cure thoroughly to avoid alligating and staining. As this condition is unpredictable, we recommend that the user apply a small amount of #637 to the area of the roof to be coated in order to test its performance. Use #637 as it comes from the container, no thinning is necessary with this product. Do not over apply this product on APP modified bitumen or the membrane may blister or be otherwise damaged. Clean up with mineral spirits and waterless hand cleaner.

CAUTION

Combustible mixture, keep away from heat and open flames. Avoid prolonged contact with skin or fumes. If irritation occurs seek medical attention. Do not use near heat or open flame. Keep out of reach of children. Read MSDS prior to use.

#637 SPECIFICATION

Applicable Specification	ASTM D-2824 Type III
Viscosity ASTM D-562	1000G @ 77°F (25°C) (5000 cps)
Recommended rate of application	1.5 to 2 gal. per 100 sq. ft
% Asphalt	25 min
% Solids	50 min
% Non-volatile	60 max
Weight per gallon	8.9 lbs.
Initial Solar Reflectivity	65% min
Aged Solar Reflectivity	50% min
Aluminum Paste per gallon	3 Lbs.
Elongation	300% min
Recovery (nominal)	95% min
Flash Point (TCC)	+100°F (38.7°C)
Container Sizes	5, 55

Lucas #637 Aluminum Roof Coating meets all requirements of the Urban Heat Islands Provision of the Chicago Energy Code 18-13-303.2.1.

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