

FLINTCOAT™ -A 300 Fibred Aluminum Roof Coating



Product Information



Description: FlintCoat-A 300 is a **premium** fibred aluminum roof coating made of selected asphalts and pigment flakes of pure aluminum, blended with mineral fibers and refined solvents for heavy duty performance capability. When FlintCoat-A 300 is applied to the roof, the aluminum flakes leaf to the surface, forming a reflective, metallic shield over the base of the coating. The combination of these protective materials—aluminum, asphalt and reinforcing fibers—results in a self-protecting roof coating with long lasting moisture and heat-resistant properties. FlintCoat-A 300 Fibred Aluminum Roof Coating remains permanently bonded to the base material, thus assuring prolonged roof life. FlintCoat-A 300 is an ENERGY STAR® labeled roof coating.

Uses: FlintCoat-A 300 helps reduce indoor building temperatures and therefore lowers energy consumption. It's ideal for use on modified bitumen membranes, metal corrugated decks, steep asphalt that has aged for 90 to 180 days, or FlintCoat™-E emulsion coating that has been allowed to cure for 3 to 5 days.

Product Advantages:

1. Self-protecting: the aluminum shield protects the base coating's asphaltic oils so coating stays resilient
2. Reflects over 65% of the sun's rays
3. Prolongs roof life; helps protect roof membrane from U.V. degradation
4. Helps reduce energy consumption costs
5. Helps keep building interiors cooler in hot weather by reflecting the sun's rays
6. Easy to apply
7. ENERGY STAR labeled
8. 3 lb. plus aluminum pigment content
9. Non-asbestos

Typical Physical Properties

CHARACTERISTIC	RESULT
Weight per Gallon ASTM D1475	8.7 lbs.
Solids by Weight ASTM D1644	58% (+/- 1%)
Solids by Volume ASTM D2697	40% (+/- 1%)
Color	Silver
Hardness Shore A ASTM D2240	60
Cure Time @77°F, 50% Relative Humidity	24-48 hrs.
Performance Temp. Range	-40°F to 180°F

CHARACTERISTIC	RESULT
Application Temp. Range	40°F and above
Metallic Aluminum Minimum Content ASTM D2824	12%
% Asphalt Content ASTM D4125	30%
Consistency, Brookfield RVF Viscometer, #4 Spindle @ 20 RPM @ 77°F ASTM D2196	3,500 Centipoise
Wet Mil Thickness @ Average Application Rate	16-24 mils
Dry Mill Thickness @ Average Application Rate	6-10 mils

Packaging

	FLINTCOAT-A 300	
Packaging	5-gallon pails	55-gallon drums
Units Per	36 pails/pallet	4 drums/pallet
Approx. Wt. Per Pallet	1,732 lbs.	2,120 lbs.

Apply **FlintCoat-A 300 Fibred Aluminum Roof Coating** at the rate of 1 to 1-1/2 gallons per 100 sq. ft.

ENERGY STAR DATA		
Initial Reflectivity ASTM C1549	3-Year Reflectivity	Emissivity
70%	56%	0.36

Meets or exceeds ASTM D2824, Type II
Meets or exceeds ASTM D3805
Meets or exceeds ASTM D962 Type II
U.L. Class A Listed: File #R11656;
Control #84RI (see U.L. Directory for listing details)



Product Application

Surface Preparation: Surfaces should be clean and dry. Prepare all surfaces by sweeping clean of dust, dirt, oil and loose particles. Repair all cracks and blisters by spreading FlintBond™ SBS Modified Bitumen Adhesive, Trowel Grade, over the damaged area, then embed appropriate cotton, glass or polyester reinforcement and apply another coat of FlintBond SBS Modified Bitumen Adhesive over the entire patch. Aged and “alligatored” asphalt roof surfaces should be primed with FlintCoat-E emulsion (see CertainTeed’s FlintCoat-E Technical Data Sheet) prior to application of FlintCoat-A 300. New asphalt roof surfaces should weather a minimum of 90 days before being coated with FlintCoat-A 300 Fibered Aluminum Roof Coating. However, FlintCoat-A 300 can be coated on roofs 3 to 5 days after FlintCoat-E emulsion has been applied.

Note: Discoloration will occur in areas where FlintBond SBS Modified Bitumen Adhesive is not allowed to dry a minimum of 90 days.

Application: FlintCoat-A 300 Fibered Aluminum Roof Coating should be spread uniformly over the roof surface. Care should be taken not to overwork the coating during application. This could have a damaging effect on the leafing of the aluminum. Pour the correct amount of aluminum coating to cover a given area and apply uniformly in one direction. Be sure to **mechanically mix** the aluminum coating thoroughly before using. FlintCoat-A 300 can be applied with a soft roof brush, roller or spray.

Note: Coating Modified Bitumen Membranes with Aluminum Coatings

CertainTeed recommends coating modified bitumen membranes as soon as possible after the membrane is installed. CertainTeed’s experience, laboratory and field tests, as well as NRCA, RCMA and ARMA reports, indicate that aluminum coating will reduce the combined effects of ultraviolet rays, heat and moisture, which, especially on APP modified bitumens, enhance exudation that can cause discoloring and delamination of any surface coating.

Clean Up: Equipment may be thoroughly cleaned after use with mineral spirits, taking necessary precautions when handling combustible materials. Use a waterless hand cleaner to clean hands.

Storage

Store product indoors, in an enclosed area protected from the elements, between 50°F and 100°F. Protect from freezing. Keep away from heat or flame. Keep containers sealed until use.

Precautions

Do not use near open flame. Avoid breathing solvent fumes and prolonged contact with skin. Do not take internally. If swallowed, do not induce vomiting. Call a physician immediately. Keep out of reach of children. Keep container covered when not in use. Do not thin. Dispose of in an environmentally safe manner.

Provide adequate ventilation and take necessary measures to prevent penetration of airborne solvents into the building structure. Cover air intakes during application and while drying.

COLD-PROCESS SYSTEMS AND COATINGS, EITHER EMULSION OR SOLVENT BASED, SHOULD ONLY BE INSTALLED ON DECKS WITH POSITIVE DRAINAGE. PER NRCA (NATIONAL ROOFING CONTRACTORS ASSOCIATION), “THE CRITERIA FOR JUDGING PROPER SLOPE FOR DRAINAGE IS THAT THERE BE NO EVIDENCE OF STANDING WATER ON THE DECK 48 HOURS AFTER IT STOPS RAINING.”

Technical Assistance

CertainTeed provides technical assistance in the selection, specification and application guidelines for all CertainTeed Commercial Roofing products and systems. Architectural and field representatives are available for consultation within each region. Refer also to the CertainTeed Commercial Roof Systems Specification Manual for additional information.

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