

ARCHITECTURAL ROOF COATINGS

SPECIFICATION FOR COATING

URETHANE ROOFS WITH ARC SEBS REFLECTIVE COATING

1.0 SCOPE

The intention of this specification is to outline the procedures for the application of ARC SEBS Elastomeric roof coatings for the purpose of coating Urethane Foam roofs. This specification describes materials, methods and conditions necessary for the proper application of Architectural Roof Coatings.

2.0 MATERIALS

All Materials used shall be manufactured by and or approved by Architectural Roof Coatings Inc. and shall meet the following specifications.

2.1 Elastomeric Coating System

ARC SEBS reflective roof coating

Type:	Styrene Ethylbutylene Styrene
Elongation:	600% ASTM D-412
Tensile strength:	1000 psi ASTM D-412
U.L APPROVED ANSI/UL 790 CLASS A	
Solids:	65%
Color:	White or color tinted

ARC SEBS RUST INHIBITOR Rust inhibitive primer

Type:	SEBS
Solids	35%
Finish:	Flat
Color	Clear

ARC SEBS CLAY BASED EMULSION

Type:	SEBS emulsion
Elongation:	750% ASTM D-412
Tensile strength:	650 psi ASTM D-412
Solids:	55%
Color:	Black:

2.2 Delivery and storage

- 2.2.1 Materials shall be delivered in their original, tightly sealed containers or unopened packages, all clearly labeled with the manufacturer's name, file number, lot numbers and MSDS sheets.
- 2.2.2 Materials shall be stored out of the weather in their original tightly sealed containers or unopened containers as recommended by the manufacturer.

3.0 Contractor.

- 3.1 The SEBS reflective coatings shall be applied by a single, experienced and competent contractor or applicator approved by Architectural Roof Coatings Inc.
- 3.2 Contractor shall be in business a minimum of five years doing business under the same company name. Financial stability shall include no filing of bankruptcy during the past twelve years.

4.0 Surface Preparation Urethane foam roofs.

- 4.1 Preparation shall include all requirements specified by Architectural Roof Coatings Inc., to insure proper adhesion of the ARC SEBS reflective roof coatings to the existing substrate.
- 4.2 Preparation shall include but not limited to the following:
 - 4.2.1 All unnecessary and non-functional equipment and debris shall be removed from the roof.
 - 4.2.2 HVAC condensate drains shall be properly routed to roof drains to allow roof membrane and coatings to properly cure and dry.
 - 4.2.3 Pressure wash entire roof surface to be coated using a suitable cleaner such as TSP and using a broom as required to remove all dirt, debris and chalk or loose granules from the substrate surface.

4.3 Repairs to roof membrane

- 4.3.1 Blisters are to be repaired in accordance with roof manufacturer specifications. Areas that have exposed foam base orange repaired with ARC SEBS clay based emulsion coating.
- 4.3.2 Damaged Foam areas are to be removed and replaced with new foam to match existing.
- 4.3.3 All roof penetrations, curbs, soil waste stacks, vent stacks and related roofpenetrations are to be flashed in accordance with roof manufactures specifications.

4.3.4 All wall flashings are to be repaired in with roof manufactures specifications.

4.4 Preparation of surface currently coated with aluminized asphalt coating.

4.4.1 In the event the asphalt cannot be completely removed by pressure washing the area covered by aluminized asphalt shall be primed with asphalt primer.

4.4.2 Area shall be primed with asphalt primer at a rate of one gallon per 300-400 square feet and allowed to dry completely.

4.5 Preparation of surface currently coated with acrylic water based coating.

4.5.1 In the event the acrylic coating cannot be removed by pressure washing the area covered by acrylic coating shall be covered with Architectural Roof Coatings SEBS emulsion.

4.5.2 Area shall be coated with SEBS emulsion at a rate of 1.50 gallons per 100 square feet and allowed to dry 24-48 hours depending on humidity and temperature.

4.6 Metal surfaces [copings, etc] to be coated with ARC SEBS roof coatings.

4.6.1 Metal surfaces to be coated shall be clean of all rust and scale by abrasive cleaning or wire brushing.

4.6.2 Surfaces cleaned of rust and scale must be primed with Architectural Roof Coatings Inc., Rust Inhibitive primer at a rate of one gallon per 200-300 square feet and allowed to dry.

4.6.3 Metal surfaces that have residual asphalt must be coated with ARC SEBS stain blocker at a rate of 1 gallon per 100 square feet (15) wet mils minimum and allowed to dry 24-48 hours depending on humidity and temperature.

4.6.4 Apply two Coats of ARC SEBS reflective roof coatings at a rate of one gallon per 100 Square feet (15 wet mils minimum) and allowed to dry 24-48 hours depending on humidity and temperature.

4.6.5 Stacks or lines that are heated are not to be coated with Sun Shield. These are to be prepared as indicated in 4.6.2 and primed with heat resistant primer and paint.

5.0 Application of Acrylic Primer to Urethane membranes

Application will be at a rate of one gallon [1] per square and allowed to dry Before application of finish white coat.

6.0 Application of ARC SEBS reflective finish coat.

- 6.1 ARC SEBS finish coatings are to be applied only after the base coat has thoroughly cured and dried.
- 6.2 ARC SEBS finish coat applications to be in accordance with 6.1.2-6.1.5 for application rates equipment and weather conditions.
- 6.3 Each coat must be allowed to cure 24-48 hours depending on humidity and temperature. The roof is to be inspected and repaired if necessary before a subsequent coat is applied.

7.0 Required application rates for ARC SEBS reflective roof coatings.

- 7.1 10 year warranty –2 gallons per square total (21 dry mils average, 18 dry mils minimum).
- 7.2 15 year warranty-3 gallons total per square, 1 base, 2 finish (32.0 dry mils average, 27 dry mil minimum).

8.0 Limitations.

This system is to be used only in conjunction with commonly accepted roofing standards but not limited to the following:

- 8.1 No application of materials shall commence during inclement weather or when precipitation is imminent. **No thinning of materials is permitted.**
- 8.2 No materials are to be applied to wet, dirty, or frozen surfaces.
- 8.3 No materials are to be applied at temperatures below 40 deg F.
- 8.4 No materials are to be applied at ambient air temperatures above 100 deg F.
- 8.5 No materials are to be applied at relative humidity levels above 88%.
- 8.6 In conjunction with the final inspection, all debris, containers, materials and equipment are to be properly removed from the job site. Grounds are to be cleaned undamaged and acceptable to the owner
- 8.7 Reflectivity of coatings will not be effective if roof surface is not cleaned on a regularly scheduled basis.
- 8.8 Known ponding water areas are to receive an additional application of one [1] Gallon per square of either SEBS stain blocker or SEBS white.

Specifications are provided by An Independent Architectural Engineering Firm.