

<b>PART 1: GENERAL</b>									
<p><b>1.01 Description of Work</b></p> <p>A. This specification is for the application of Uniflex products and should be used only as a general guide. Additional details and specific areas of repair are to be selected, modified or added, as necessary.</p> <p>B. The coating system is designed to restore and protect BUR and Modified Bitumen roofs from further degradation and extend the useful life of the roof.</p> <p>C. Additional details and specific areas of repair are to be selected, modified, or added as necessary.</p> <p><b>1.02 Quality Assurance</b></p> <p>A. <i>Manufacturer Qualifications:</i> Manufacturer shall have been in the roof coating business a minimum of 20 years. Manufacturer must be ISO 9001:2008 Certified.</p> <p>B. <i>Requirements of Regulatory Agencies:</i> Furnish and apply all roofing materials in accordance with all regulatory agencies and approved building codes.</p> <p>C. <i>Contractor Qualifications:</i></p> <ol style="list-style-type: none"> <li>Contractor shall have business stability and own proper equipment to prepare and apply materials as described herein.</li> <li>Contractor must provide proof of insurance including liability and workers' compensation certificates.</li> <li>Contractor must be an approved Uniflex Applicator for the specific project and Warranty Requirements.</li> </ol> <p><b>1.03 Conformance Standards</b></p> <p>A. Underwriters Laboratory (UL), Class A</p> <p>B. FM Global approved</p> <p><b>1.04 Submittals</b></p> <p>A. <i>Product Data:</i> Technical product data, literature and drawings will be submitted.</p> <p><b>1.05 Product Storage and Handling</b></p> <p>A. Deliver materials in manufacturer's original unopened containers bearing manufacturer's original label.</p> <p>B. Store and handle products in a manner ensuring no possibility of contamination.</p> <p>C. Store materials at a minimum of 50°F prior to use.</p> <p><b>1.06 Job Condition</b></p> <p>A. Environmental Requirements</p> <ol style="list-style-type: none"> <li>Do not begin work if rain is expected within 24 hours of application. Do not apply if weather does not permit 4-6 hours dry time prior to rain, fog or temperatures below 50°F.</li> </ol>	<p>B. All surfaces to be coated must not pond water (water that evaporates within 48 hours is not considered a pond) and must be clean, dry and structurally sound.</p> <p><b>1.07 Protection and Coordination</b></p> <p>A. Owner will occupy the premises during the entire period of the roof retrofit. Coordinate with Owner during construction operations to facilitate continued use of the facility.</p> <p>B. Coordinate scheduling with the Owner in order to relocate or protect vehicles, building occupants, and building contents from damage during construction operations.</p> <p><b>1.08 Warranty</b></p> <p>A. Contact Uniflex Roofing Systems for available warranties.</p>								
<b>PART 2: PRODUCTS</b>									
<p><b>2.01 General</b></p> <p>A. All materials must be products of Uniflex Industrial Roof Coatings.</p> <ol style="list-style-type: none"> <li>Uniflex 500 Aluminum Roof Coating meets the composition requirements of ASTM D-2824-85 Type III. (Refer to data sheet 20-475)</li> <li>Uniflex 300 Aluminum Roof Coating is a cost effective alternative to Uniflex 500 Aluminum. (Refer to data sheet 20-480)</li> </ol> <p>B. Repair Options</p> <ol style="list-style-type: none"> <li>Uniflex Asphalt Primer (refer to data sheet 20-412)</li> <li>Non-Fibered Asphalt Emulsion (refer to data sheet 40-314)</li> <li>Uniflex Polyester Fabric (refer to data sheet 20-385)</li> </ol> <p><b>2.02 Roof Coating System</b></p> <p>A. Approved Manufacturer</p> <p>B. Approved Coating: Uniflex 500 Aluminum Roof Coating</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Vehicle Base .....</td> <td>Asphalt</td> </tr> <tr> <td>Solids by weight .....</td> <td>60 ± 2%</td> </tr> <tr> <td>Solids by volume .....</td> <td>44 ± 2%</td> </tr> <tr> <td>Dry Film Thickness .....</td> <td>14.2 mils</td> </tr> </table> <p style="text-align: center;">(@ 2 gal/100 sq. ft. less surface absorption)</p>	Vehicle Base .....	Asphalt	Solids by weight .....	60 ± 2%	Solids by volume .....	44 ± 2%	Dry Film Thickness .....	14.2 mils	
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### PART 3: EXECUTION

#### 3.01 Inspection

- A. *General Requirements:* Inspect roof surface prior to application. Surface must be:
1. Clean, dry and structurally sound.
  2. Free of ponding water.
- B. *Contaminants*
1. Any discharge of fumes or possible contaminants must be noted.
  2. **Contact Uniflex to determine if fumes or matter being exhausted will interfere with adhesion.**  
**Note:** Slope of roof area must not be less than ¼" per foot.

#### 3.02 Surface Preparation

- A. High pressure wash utilizing a 2,000 psi pressure washer to remove all dust, dirt, loose coatings, foreign matter, etc.
- B. Probe roof laps and penetrations to identify points of water entry.
- C. Where ponded water conditions exist, corrective measures must be taken to eliminate water build up.
- D. Damaged membrane or saturated insulation must be replaced.
- E. Tighten or re-secure all terminations and assure all termination bars and reglets are properly caulked using Sherwin-Williams Stampede 1 caulk.
- F. Repair flashings, blisters, splits and "fishmouths" with Non-Fibered Asphalt Emulsion reinforced with Polyester Fabric.
1. 3-Course method Application Rates:
    - a. 6" Polyester Fabric – Apply Elastomeric Coating at a total rate of 40 sq.ft./gallon (65 lineal ft./gallon). Be sure to extend coating a minimum 1 ½" beyond the width of the polyester on each side.
    - b. 12" Polyester Fabric – Apply Elastomeric Coating at a total rate of 40 sq.ft./gallon (32 lineal ft./gallon). Be sure to extend coating a minimum 1 ½" beyond the width of the polyester on each side.
- G. In low lying areas, around drains or other areas where potential water accumulation is possible, apply Non-Fibered Asphalt Emulsion at the rate of 2 gallons per 100 sq. ft. Embed 40" Polyester Fabric into wet coating and immediately apply a second coat of Non-Fibered Asphalt Emulsion on top of the fabric at the rate of 2 gallons per 100 sq. ft. Coating must extend a minimum of 2" beyond the edge of the fabric. If reinforcing wider areas, overlap fabric a minimum of 3".
- H. Drain detail: Remove strainer and ring. Embed Uniflex Polyester Fabric into Non-Fibered Asphalt

Emulsion extending a minimum of 12" around perimeter.

- I. Prime dried out asphalt using Black Asphalt Primer at the rate of 1 gallon per 100 sq. ft.
- J. Severely alligatored surfaces must be coated using Non-Fibered Asphalt Emulsion at 3-4 gallons per 100 sq. ft.

**Note: When applying coatings and primers to rough and weathered surfaces coverage becomes theoretical. Add additional product when surface roughness exceeds what is considered normal. The surface will dictate your actual coverage.**

#### 3.03 Application

- A. General
1. Inspect preliminary repairs relating to substrate for any additional problem areas to ensure all preparatory work is completed.
  2. Aluminum Roof Coating must be thoroughly mixed before and during application.
- B. Application Method
1. Apply using airless spray equipment (recommended air pressure of 2,800 psi at the tip).
    - a. Spray Tip: Reversible, self-cleaning tip without diffuser pin. Size .045 - .055 with a fan angle of 60° (ex: 645-655).
    - b. Hose Size: At 300' total hose length, use 250' of ¾" → 50' of ½" → 10' swivel whip end ⅜" hose.
    - c. General: The longer the hose, the smaller the tip orifice size.
  2. Allow a minimum of 24 hours between coats to cure prior to recoating.
- C. Application Rate
1. 3.0 gallons/100 sq. ft. (48 wet mils).

#### 3.04 Job Completion

- A. Inspect completed application and correct any defects.
- B. Manufacturer's representative may inspect the completed roofing system and notify the Contractor of any defects in the application.
- C. Clean up all debris, excess materials, and equipment and remove from site.
- D. Restrict traffic to only essential personnel. Provide appropriate protection against traffic and construction activities on completed roofs.