

PART 1: GENERAL	
<p>1.01 Description of Work</p> <p>A. This specification is for the application of UP-OSY® Reinforced Coating Systems installed over existing Smooth Built-up, Modified Bitumen (smooth or granule). This specification is for the application of UP-OSY® Coating Systems 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>1.02 Quality Assurance</p> <p>A. <i>Manufacturer Qualifications:</i> Manufacturer shall have been in the roof coating business a minimum of ten (10) years.</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"> Contractor shall have business stability and own proper equipment to prepare and apply materials as described herein. Contractor must provide proof of insurance including liability and workers' compensation certificates. Contractor must meet the Approval Status Level required for the specified project and warrant requested. Systems warranties available only to UP-OSY® Authorized Premier or Premier Elite Contractors. <p>1.03 Submittals</p> <p>A. <i>Product Data:</i> Technical product data, literature and drawings will be submitted.</p> <p>1.04 Product Storage and Handling</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>1.05 Job Condition</p> <p>A. Environmental Requirements</p> <ol style="list-style-type: none"> 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. All surfaces to be coated must not pond water. Water that evaporates within 48 hours is not considered a pond. All surfaces shall be clean, dry and structurally sound. 	<p>B. Protection and Coordination</p> <ol style="list-style-type: none"> Owner will occupy the premises during the entire project. Cooperate with Owner during construction operations to promote continued use of the facility. Coordinate scheduling with the Owner in order to relocate or protect vehicles, building occupants, and building contents from damage during construction operations. <p>1.06 Warranty</p> <p>A. Contact your UP-OSY® Representative to discuss roof system warranty options.</p> <p>B. Systems Warranties: Reinforcing with Polyester Fabric is required, and not limited to, seams, protrusions and wall transitions.</p>
PART 2: PRODUCTS	
<p>2.01 General</p> <p>A. All coating systems must be products of UP-OSY®</p> <ol style="list-style-type: none"> UP-OSY® Asphalt Primer (refer to data sheet 20-412). Non-Fibered Asphalt Emulsion (refer to data sheet 40-314). UP-OSY® White Elastomeric is a 100% acrylic polymer elastomeric coating (refer to data sheet 41-300). UP-OSY® MB Base Coat is designed as a base coat to be used on Asphalt Surfaces (refer to data sheet 41-510). UP-OSY® 500 Aluminum Roof Coating meets the composition requirements of ASTM D-2824-85, Type III (refer to data sheet 20-475). UP-OSY® 300 Aluminum Roof Coating is a cost effective alternative to Uniflex® 500 Aluminum (refer to data sheet 20-480). UP-OSY® Acrylic Patching Cement is a fibered reinforced acrylic cement (refer to data sheet 41-220). UP-OSY® Polyester Fabric is a stitch bonded polyester fabric (refer to data sheet 20-385). UP-OSY® Slope Builder is designed to build up low lying roof areas to eliminate water ponding. (Refer to data sheet OSLPBD) 	

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<p>2.02 Roof Coating System</p> <p>A. Approved Manufacturer</p> <p>B. Approved Coating: UNIFLEX® Non-Fibered Asphalt Emulsion</p> <p>Vehicle Base Asphalt</p> <p>Weight Per Gallon 8.6 lbs.</p> <p>Solids by weight (ASTM 2369) 49 ± 2%</p> <p>Solids by volume 47 ± 2%</p> <p>C. Approved Coating: UNIFLEX® Elastomeric Roof Coating</p> <p>Vehicle Base 100% Acrylic</p> <p>Elongation/Tensile @ 77°F</p> <p>Initial Elongation 200%</p> <p>Tensile Strength 150 psi</p> <p>1000 Hrs Xenon Arc 130% @ 73°F</p> <p>Solids by weight (ASTM 2369) 67 ± 2%</p> <p>Solids by volume 52 ± 2%</p> <p>Permeance (D1653) 8 perms</p> <p>D. Approved Coating— UNIFLEX® MB Base Coat</p> <p>Vehicle Base 100% Acrylic</p> <p>Elongation/Tensile @ 77°F</p> <p>Initial Elongation 500%</p> <p>Tensile Strength 90 psi</p> <p>1000 Hrs Accelerated Weathering...no checking or cracking</p> <p>Solids by weight (ASTM 2369) 63 ± 2%</p> <p>Solids by volume 50 ± 2%</p>	<p>B. Probe roof laps and penetrations to identify points of water entry.</p> <p>C. Where ponding water conditions exist, corrective measures must be taken to eliminate water build up.</p> <p>D. Damaged membrane or saturated insulation must be replaced.</p> <p>E. Tighten or re-secure all terminations and assure all termination bars and reglets are properly installed using UNIFLEX® Non-Fibered Asphalt Emulsion Reinforced with Polyester Fabric.</p> <p>F. Prime dried out asphalt using Black Asphalt Primer at the rate of 1 gallon per 100 sq. ft.</p> <p>G. Repair flashings, blister, splits and “fishmouths” with Non-Fibered Asphalt Emulsion Reinforced with Polyester Fabric.</p> <p>1. 3-Course method Application Rates:</p> <p>a. 6" Polyester Fabric – Apply Non-Fibered Asphalt Emulsion 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.</p> <p>b. 12" Polyester Fabric – Apply Non-Fibered Asphalt Emulsion at a total rate of 40 sq. ft./gallon (32 sq. ft./gallon). Be sure to extend coating a minimum of 1 ½" beyond the width of the polyester on each side.</p> <p>H. Apply UNIFLEX® Slope Bulider to build up low lying areas to eliminate ponding water.</p> <p>I. 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 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".</p> <p>J. Drain detail: Remove strainer and ring. Embed UNIFLEX® Polyester Fabric into Non-Fibered Asphalt Emulsion extending a minimum of 12" around perimeter.</p>
PART 3: EXECUTION	
<p>3.01 Inspection</p> <p>A. <i>General Requirements:</i> Inspect roof surface prior to application. Surface must be:</p> <ol style="list-style-type: none"> Clean, dry and structurally sound. Free of ponding water. Slope of roof area must not be less than ¼" per foot. Replace all wet insulation prior to beginning the coating process. For roofs with more than 20% wet insulation, other options such as re-roofing should be considered. <p>B. <i>Contaminants</i></p> <ol style="list-style-type: none"> Any discharge of fumes or possible contaminants must be noted. Contact UNIFLEX® to determine if fumes or matter being exhausted will interfere with adhesion. <p>C. This System is not intended for Coal Tar Pitch roofs.</p> <p>3.02 Surface Preparation</p> <p>A. High Pressure wash utilizing a 2,000 psi pressure washer to remove all dust, dirt, loose coatings, foreign matter, etc. Gravel BUR: All loose gravel must be removed by either wet vacuum or power brooming.</p>	<p>3.03 Coating Application</p> <p>A. General</p> <ol style="list-style-type: none"> Inspect preliminary work relating to substrate for any additional problem areas to ensure all preparatory work is completed. <p>B. Application Method</p> <ol style="list-style-type: none"> Apply using airless spray equipment (recommended air pressure of 2,000 psi at the tip). Spray Tip: Reversible, self-cleaning tip without diffuser pin. Size .045 - .055 with a fan angle of 60° (ex: 645-655).

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<p>3. Hose Size: At 300' total hose length, use 250' of ¾" → 50' of ½" → 10' swivel whip end ⅜" hose.</p> <p>4. General: The longer the hose, the smaller the tip orifice size.</p> <p>C. Application Rate (Coverages will vary depending on the porosity of the substrate)</p> <p>1. Embedded Gravel: Apply Non-Fibered Asphalt Emulsion (product 40-314) at a minimum rate of 5 gal/100 sq.ft. to achieve a semi smooth surface. Smooth BUR or Modified Bitumen: Apply Non-Fibered Asphalt Emulsion at a rate of 3 – 4.5 gallons/100 sq. ft. Base Coat coverage will vary based on surface profile</p> <p>2. Embed 40" Polyester Fabric, overlapping 3". Be sure to apply coating between fabric layers at overlap.</p> <p>3. Embedded Gravel & Smooth BUR or Modified Bitumen: Apply Non-Fibered Asphalt Emulsion (product 40-314) at a rate of 1 gal/square to cover fabric. Apply pressure to the fabric while coating to embed the fabric consistently into the base coat (no wrinkles). Step 3 may be conducted at the same time as steps 1 & 2 depending on the weather and time of year. Consult your Uniflex[®] Representative.</p> <p>4. Embedded Gravel: Apply Non-Fibered Asphalt Emulsion (product 40-314) Finish Coat of at a rate of 3.5 gal/square. Smooth BUR or Modified Bitumen: Apply Non-Fibered Asphalt Emulsion at a rate of 1.5 gallon/square.</p> <p>C. Reflective Coating Application</p> <p>1. White Elastomeric – Refer to specifications for UNIFLEX[®] Elastomeric over BUR and Modified Bitumen Roofs.</p> <p>2. Asphalt Aluminums – Refer to specifications for UNIFLEX[®] 500 Aluminum Coating for BUR and Modified Bitumen Roofs</p> <p>3.04 Job Completion</p> <p>A. Inspect completed application and correct any defects.</p> <p>B. Manufacturer's representative may inspect the completed roofing system and notify the Contractor of any defects in the application.</p> <p>C. Clean up all debris, excess materials, and equipment and remove from site.</p> <p>D. Restrict traffic to only essential personnel. Provide appropriate protection against traffic and construction activities on the completed roofs.</p>	