

<b>PART 1: GENERAL</b>	
<p><b>1.01 Description of Work</b></p> <p>A. This specification is for the application of UP-<del>CSPE</del>® 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 Aged CSPE-Hypalon™ Membrane 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 UP-<del>CSPE</del>® Applicator for the specific project and Warranty Requirements. Systems warranties available only to UP-<del>CSPE</del>® Authorized Premier or Premier Elite Contractors.</li> </ol> <p><b>1.03 Conformance Standards</b></p> <ol style="list-style-type: none"> <li>Underwriters Laboratory (UL), Class A</li> <li>FM Global approved</li> <li>Miami-Dade</li> <li>FBC – Florida Building Code</li> <li>California Title 24</li> <li>NSF P151</li> </ol> <p><b>1.04 Submittals</b></p> <p>A. Manufacturer's technical product data, literature, contractor drawings and certificates 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 Conditions</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> <li>All surfaces to be coated must not pond water. Water that evaporates within 48 hours is not considered a pond.</li> <li>All surfaces shall be clean, dry and structurally sound.</li> </ol> <p>B. Protection and Coordination</p> <ol style="list-style-type: none"> <li>Owner will occupy the premises during the entire project. Cooperate with Owner during construction operations to promote continued use of the facility.</li> <li>Coordinate scheduling with the Owner in order to relocate or protect vehicles, building occupants, and building contents from damage during construction operations.</li> </ol> <p><b>1.07 Warranty</b></p> <p>A. Contact your UP-<del>CSPE</del>® Representative to discuss <del>the</del> system warranty options.</p> <p>B. Systems Warranties: Reinforcing with Polyester Fabric is required, and not limited to, seams, protrusions and wall transitions.</p>
<b>PART 2: PRODUCTS</b>	
<p><b>2.01 General</b></p> <p>A. All coating systems must be products of UP-<del>CSPE</del>® Fluid Applied Roofing Systems.</p> <ol style="list-style-type: none"> <li>UP-<del>CSPE</del>® White Elastomeric is a 100% acrylic polymer elastomeric coating (refer to data sheet 41-300).</li> <li>UP-<del>CSPE</del>® SPE Gray Acrylic Base Coat is formulated from a unique cross-linking acrylic polymer for enhanced adhesion (refer to product data sheet 41-321).</li> <li>UP-<del>CSPE</del>® Seam Tape is a polyester faced, modified butyl rubber adhesive tape (refer to data sheet 20-806).</li> <li>UP-<del>CSPE</del>® Acrylic Patching Cement is a fibered reinforced acrylic cement (refer to data sheet 41-220).</li> <li>UP-<del>CSPE</del>® Polyester Fabric is a stitchbonded polyester fabric (refer to data sheet 20-385).</li> </ol>	

<b>PART 2: PRODUCTS</b>	
<p>6. Uniflex® Slope Builder is designed to build up low lying roof areas to eliminate water ponding. (Refer to data sheet OSLPBD)</p> <p><b>2.02 Roof Coating System</b></p> <p>A. Approved Manufacturer</p> <p>B. Approved Coating: Uniflex® Elastomeric Roof Coating</p> <p>Vehicle Base ..... 100% Acrylic Resin</p> <p>Elongation/Tensile @ 77°F</p> <p>    Initial Elongation ..... 180%</p> <p>    Tensile Strength ..... 240 psi</p> <p>    1000 Hrs. Xenon Arc.....130%@73°F</p> <p>Solids by weight.....67 ± 2%</p> <p>Solids by volume.....52 ± 2%</p> <p>Permeance (ASTM D1653) ..... 4 perms</p> <p>Initial Solar Reflectance ..... 0.86</p> <p>Initial Thermal Emittance ..... 0.91</p> <p>SRI ..... 108</p>	<p>C. If mildew exists on the membrane surface, remove by washing with a solution of detergent and bleach (1 tablespoon of laundry detergent with 1-2 pints of bleach in 1 gallon of water).</p> <p>D. Any repairs to the membrane, flashings, penetrations, etc. as determined through inspection, must be completed before coating is applied.</p> <p><b>Note: If a structurally sound, well sealed and watertight membrane is not in place, the roof is not acceptable to receive the coating system.</b></p> <p>1. Tighten or re-secure all terminations and assure all termination bars and reglets are properly caulked using Sherwin-Williams Stampede 1 caulk.</p> <p>2. On mechanically fastened and fully adhered systems, replace backed out fasteners with new stress plates and fasteners. Relocate new fasteners adjacent to original location.</p> <p>3. Repair loose, open seams, holes and splits with Uniflex® Seam Tape or Uniflex® SPE Gray Acrylic Base Coat and Polyester Fabric.</p> <p>a. 3 – Course Method Application Rates:</p> <p>    i. 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.</p> <p>    ii. 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.</p> <p>4. To seal and reinforce areas around penetrations including vents, stacks, and fans, as well as curbs and drains, use Uniflex® Seam Tape or UP-OSOY® SPE Gray Acrylic Base Coat and Polyester Fabric.</p> <p>5. Perimeter metal drip edges must be secure and reinforced with UP-OSOY® SPE Gray Acrylic Base Coat, embedding Polyester Fabric.</p> <p>6. Apply UP-OSOY® Slope Builder to build up low lying areas to eliminate ponding water.</p> <p>7. In low lying areas, around drains or other areas where potential water accumulation is possible, apply UP-OSOY® SPE Gray Acrylic Base Coat at the rate of 2 gallons per 100 sq. ft. Embed 40” wide Polyester Fabric into the wet coating and immediately apply a second coat of Gray Base Coat on top of the fabric at the rate of 1 gallon 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>8. Drain detail: Remove strainer and ring. Embed UP-OSOY® Polyester Fabric into Gray Elastomeric extending a minimum of 12” around perimeter.</p>
<b>PART 3: EXECUTION</b>	
<p><b>3.01 Inspection</b></p> <p>A. The roof surface must be clean, dry, free of ponding water, and structurally sound.</p> <p>B. 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> <p>C. Inspect the membrane surface for cracks, blisters, chalking, crazing, and shrinking.</p> <p>D. Inspect flashing details including penetrations, curbs, expansion and transition joints, wall terminations, and drain details.</p> <p>E. Inspect and probe all field seams and patches.</p> <p>F. Inspect and determine if substrate, insulation or deck is deteriorated and should be replaced.</p> <p>G. Inspect for insulation fastener and/or plates backing out.</p> <p><b>3.02 Surface Preparation</b></p> <p>A. Any necessary repairs or replacement of deck and/or insulation must be completed.</p> <p>B. High pressure wash the roof using a minimum 2,000 psi pressure washer. Detergent or TSP substitute may be used to remove excessive dirt; brushing with a firm bristle broom may be required in some areas.</p>	

<b>PART 3: EXECUTION</b>	
<p><b>3.03 Coating Application</b></p> <p>A. General</p> <ol style="list-style-type: none"> <li>1. Inspect preliminary work for problem areas to ensure all preparatory work has been properly completed.</li> </ol> <p>B. Application Method</p> <ol style="list-style-type: none"> <li>1. Apply using airless spray equipment (recommended air pressure of 2,800 psi at the tip).               <ol style="list-style-type: none"> <li>a. Spray Tip: Reversible, self-cleaning tip without diffuser pin. Size between .033" with a fan angle of 60° (ex: 633).</li> <li>b. Hose Size: At 300' total hose length, use 250' of ¾" → 50' of ½" → 10' swivel whip end ⅜" hose.</li> <li>c. General: The longer the hose, the smaller the tip orifice size.</li> </ol> </li> <li>2. Soft brushes or a ¾" nap roller may be used. May require multiple coats to achieve proper coverage rates.</li> <li>3. Allow a minimum of 24 hours between coats to cure prior to recoating.</li> </ol> <p>C. Application Rate</p> <ol style="list-style-type: none"> <li>1. 10 Year Warranty: Apply UPONOR® SPE Gray Base Coat at the rate of 1 ½ gallons per 100 sq. ft. (24 wet mils)</li> <li>2. Apply UPONOR® Elastomeric White Coating at the rate of 1 ½ gallons per 100 sq. ft. (24 wet mils)</li> <li>3. The total minimum dry film thickness shall be 24 mils. Use a wet mil gauge to ensure proper coating requirement.</li> <li>4. 15 Year Warranty: Apply a third coat of the UPONOR® Premium Elastomeric at a rate of 1gal/ square.</li> </ol> <p>D. Optional: Walkway/Traffic Areas</p> <ol style="list-style-type: none"> <li>1. Apply UPONOR® Gray Elastomeric (41-320) at a rate of 1 gal/100 sq. ft., broadcast granules into wet coating.</li> </ol> <p><b>3.04 Job Completion</b></p> <ol style="list-style-type: none"> <li>A. Inspect completed application and correct any defects.</li> <li>B. Manufacturer's representative may inspect the completed roofing system and notify the Contractor of any defects in the application.</li> <li>C. Clean up all debris, excess materials, and equipment and remove from site.</li> <li>D. Restrict traffic to only essential personnel. Provide appropriate protection against traffic and construction activities on completed roofs.</li> </ol>	