

PART 1: GENERAL	
<p>1.01 Description Of Work</p> <p>A. This specification is for the application of UPONOR® 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 Concrete 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>1.02 Quality Assurance</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"> 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 be an approved UPONOR® Applicator for the specific project and Warranty Requirements. Systems warranties available only to UPONOR® Authorized Premier or Premier Elite Contractors. <p>1.03 Conformance Standards</p> <ol style="list-style-type: none"> Underwriters Laboratory (UL), Class A FM Global approved Miami-Dade FBC – Florida Building Code California Title 24 NSF P151 <p>1.04 Submittals</p> <p>A. <i>Product Data:</i> Technical product data, literature and drawings will be submitted.</p> <p>1.05 Product Storage And Handling</p> <ol style="list-style-type: none"> Deliver materials in manufacturer's original unopened containers bearing manufacturer's original label. Store and handle products in a manner ensuring no possibility of contamination. Store materials at a minimum of 50°F prior to use. 	<p>1.06 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. <p>B. All surfaces to be coated must not pond water (water that evaporates within 48 hours is not considered a pond) and be clean, dry and structurally sound.</p> <p>1.07 Protection And Coordination</p> <ol style="list-style-type: none"> Owner will occupy the premises during the entire period of the roof retrofit. Cooperate with Owner during construction operations to facilitate 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>1.08 Warranty</p> <p>A. Contact your Uniflex® Representative to discuss roof system warranty options.</p>
PART 2: PRODUCTS	
<p>2.01 General</p> <p>A. All materials must be products of UPONOR® Fluid Applied Roofing Systems.</p> <ol style="list-style-type: none"> UPONOR® Acrylic Primer (refer to data sheet H1111). UPONOR® Elastomeric Coating is a 100% acrylic polymer coating utilizing a gray elastomeric and white elastomeric finish coat (refer to data sheets 41-300 and 41-320). <p>B. Repair Options</p> <ol style="list-style-type: none"> UPONOR® Acrylic Patching Cement (refer to data sheet 41-220) reinforced with Polyester Fabric (refer to data sheet 20-385). UPONOR® Slope Builder is designed to build up low lying roof areas to eliminate water ponding. (Refer to data sheet OSLPBD) 	

PART 2: PRODUCTS	
<p>2.02 Roofing Coating System</p> <p>A. Approved Manufacturer</p> <p>B. Approved Coating: UP-OSY® Elastomeric Roof Coating Vehicle Base..... 100% Acrylic Resin</p> <p>Elongation/Tensile Strength @ 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 (ASTM 2369).....67 ± 2%</p> <p>Solids by Volume52 ± 2%</p> <p>Permeance (ASTM D1653) 4 perms</p> <p>Initial Solar Reflectance0.86</p> <p>Initial Thermal Emittance0.91</p> <p>SRI 108</p>	<p>D. Concrete with a pH of 6-13 may require priming with UP-OSY Acrylic Primer (refer to data sheet H-1111). Apply at a rate of 200 sq.ft./gallon. Coverage depends on the porosity of the surface. Allow 24 hours to dry prior to patching and coating. Apply UP-OSY Acrylic Primer using ½" to ¾" synthetic roller or airless spray equipment.</p> <p>E. Repair all cracks with Acrylic Patching Cement reinforced with Polyester Fabric.</p> <p> 1. 3-Course method Application Rates:</p> <p> 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.</p> <p> 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.</p> <p>F. In low lying areas, around drains or other areas where potential water accumulation is possible, apply Gray Elastomeric at the rate of 2 gallons per 100 sq. ft. Embed 40" Polyester Fabric into wet coating and immediately apply a second coat of Gray Elastomeric 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>G. Drain detail: Remove strainer and ring. Embed UP-OSY® Polyester Fabric into Gray Elastomeric extending a minimum of 12" around perimeter.</p> <p>NOTE: Allow a minimum of 24 hours for all repairs to dry.</p> <p>H. Systems Warranties: Reinforcing with Polyester Fabric is required, and not limited to protrusions and wall transitions.</p>
PART 3: EXECUTION	
<p>3.01 Inspection</p> <p>A. <i>General Requirements:</i> All new surfaces must cure for at least 7 days. Remove all form release and curing agents. Inspect roof surface prior to application.</p> <ol style="list-style-type: none"> 1. Roof surface must be clean, dry and structurally sound. 2. Roof surface must be free from ponding water. 3. Inspect condition of flashing detail adjacent to protrusions, penetrations, curbs, walls, drains and roof edges to ensure that details are acceptable and will maintain a weathertight installation. 4. If ventilators exist on the roof surface, determine what (if any) material is being exhausted onto the roof surface prior to coating (contact UP-OSY® to determine if particles or matter being exhausted will interfere with adhesion). 5. Surface must be high density, troweled smooth and fully cured. <p>3.02 Preparation Of Concrete Surface</p> <p>A. Repair spalled concrete.</p> <p>B. Where ponding water conditions exist, corrective measures must be taken to eliminate water build-up prior to coating. Apply UP-OSY® Slope Builder to build up areas to provide proper drainage.</p> <p>C. Power wash at a minimum 2,000 psi to remove all dirt, debris and scaled coatings. Oily and/or grease deposits will require cleaners/degreasers to remove contaminants.</p>	<p>3.03 Application</p> <p>A. Inspect preliminary work relating to substrate for problem areas to ensure all preparatory work is completed properly.</p> <p>B. Application Method</p> <ol style="list-style-type: none"> 1. Apply using airless spray equipment (recommended air pressure of 2,800 psi at the tip). <ol style="list-style-type: none"> a. Spray Tip: Reversible, self-cleaning tip without diffuser pin. <ol style="list-style-type: none"> 1. Acrylic Primer: Tip size: .019" 2. Elastomeric Coating: Tip size: .033" with a fan angle of 60° (ex: 633)

PART 3: EXECUTION	
<p>3. Allow a minimum of 24 hours between coats to cure prior to recoating.</p> <p>b. Hose Size: at 300' total hose length, use 250' of ¾" → 50' of ½" → 10' swivel whip end ⅜" hose.</p> <p>c. General: The longer the hose, the smaller the tip orifice size.</p> <p>2. Roller application:</p> <p>a. Loxon Acrylic Primer: ½" to 1½" nap synthetic roller.</p> <p>b. Elastomeric Coating: Soft brushes or a ¾" nap roller. May require multiple coats to achieve proper coverage rates.</p> <p>C. Application Rates</p> <p>1. 10 Year Warranty: Apply Premium Gray Elastomeric at a rate of 2 gallons/100 sq. ft. (32 wet mils). Allow 24 hours prior to application of finish coat.</p> <p>2. Inspect base coat prior to applying finish coat to ensure proper adhesion and that surface is clean. Apply Premium White Elastomeric Finish Coat at a rate of 2 gallons/100 sq. ft. (32 wet mils). Allow 24 hours prior to final inspection.</p> <p>3. 15 Year Warranty: Apply a third coat of the UP-COY® Premium Elastomeric at a rate of 1gal/square.</p> <p>D. Optional: Walkway/Traffic Areas</p> <p>1. Apply Uniflex® Gray Elastomeric (41-320) at a rate of 1 gal/100 sq. ft., broadcast granules into wet coating.</p> <p>Fabric Embedded Systems: Refer to appropriate Fabric Embedded System Specification.</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 material, and equipment and remove from site.</p> <p>D. Restrict traffic to only essential personnel. Provide appropriate protection against traffic and construction activities on completed roofs.</p>	