

VEHICULAR TRAFFIC DECKS

<p>1. SCOPE: This specification covers information for materials, labor, equipment necessary for the preparation and installation of Dura-Systems waterproofing finishing of the areas over most types of Vehicular Traffic Decks, Parking Structures, Ramps, Ferries, etc.. It also outlines installations which comply with industry standards and should be installed by a contractor authorized by the Dura-Systems distributor.</p> <p>II. MATERIALS</p> <p>All materials to be installed shall be manufactured and purchased from Silvertree Products or authorized Silvertree Products distributors. The following is a list of basic items needed for the Vehicular Traffic Deck installation.</p> <p>Primer: Several of the Dura-Systems primers are acceptable for this installation. Refer to the Dura-Systems Primer TECHNICAL BULLETINS for further information.</p> <p>Joint Tape: 3" to 6" polyester reinforcing fabric should be used for joints and transitions.</p> <p>Membrane: Dura-Lastic membrane. Refer to the Dura-Systems TECHNICAL BULLETIN on this material for further information.</p> <p>Base Membrane Filler: Dura-Lastic may have sand, rubber granules or Dura-Lastic GEL added in order to thicken the material for sloping, coving and detailing purposes. When the 25% catalyzing water is added it increases the yield by 25%. The addition of sand or rubber also further increases the product yield of the detailing mixture). Refer to the Dura-System SPECIFICATION "CRACK FILLING AND CAULKING MATERIALS" and "SAND SLURRY SPECIFICATION AND APPLICATION GUIDE" for further information.</p>	<p>Surface Texture: Many surface texture options are available to broadcast into the Dura-Lastic Membrane Waterproofing System after the Dura-Lastic membrane has been applied. Refer to the Dura-Systems advisory "Surface Textures on Dura-Systems Membranes" for a full explanation of the many options available. The end use customer must make the final texture choice as determined by their need for traction enhancement, safety concerns and surface wear & tear protection. In areas identified as needing extra heavy surface protection, such as ramps, tight turning radiuses and such, refer to the Dura-Systems ADVISORY "BACKROLLING - Why, When & How" for further information on addressing these identified areas. Especially note the section titled "HINT: Applying the second coat first" for an explanation of how to detail these identified areas in order to build up additional layers of Dura-Flex and texture surface protection in these heavy wear areas.</p> <p>The basic texture surface for the Vehicular Traffic Deck Specification is the rubber granule surface with rounded flint shot silica or Monterey aggregate (or as customer specifies) backrolled into the topcoat applications. The combination of rubber and flint shot aggregate texture makes for an excellent wear surface and will not break down and cause pin holes as is common with porous and angular sand textured systems.</p> <p>Surface Topcoat: Several Dura-Systems topcoats are available in order to provide a wear surface over the Dura-Lastic Waterproofing Membrane and texture. Refer to the Dura-Systems TECHNICAL BULLETIN for the particular topcoat which is selected.</p>	<p>III. PREPARATION</p> <p>A. SUBSTRATE: New concrete should be cured a minimum of twenty-eight (28) days with water cure or sodium silicate based curing compound only. Concrete shall be visibly dry and pass sixteen (16) hour ASTM D-4263 test (4 mil or 102 microns polyethylene mat test) with no condensation prior to the application. Concrete shall have a minimum of 4000 psi (281 kg/cm²) compressive strength. All surfaces should be cleaned and prepared by shotblasting and must be free from structural defects prior to coating application.</p> <p>IV. INSTALLATION</p> <p>A. Primer Application</p> <p>1. Primer: Using the Dura-Systems Primer selected, prime the concrete surface at the rate of 200-250 sq.ft. per gallon, depending on surface porosity and finish. Allow the primer to dry a minimum of 3 hours and a maximum of 16 hours prior to application of Base Membrane Mixture.</p> <p>2. Depressions and Irregularities: Fill all voids, depressions and irregularities with Dura-Lastic that has been thickened with sand or fine rubber granules or Dura-Lastic GEL to a "stayput" consistency.</p> <p>3. Joints, Cracks and Transitions: Polyester fabric tape must be set into Dura-Lastic. The tape should be pulled tight to the substrate so it is free of air, blisters or wrinkles for a smooth transition. Do not leave a "bump" that will show through the membrane when it is applied. Center the tape over the subject area.</p> <p>4. Metal: All metal flashing must be etched with muriatic acid, white vinegar or rough sanded, then wiped clean and dry. Prime at the rate 200-250 sq.ft. per gallon. Wait until primer has set, apply polyester reinforcing tape as indicated above.</p>
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All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on one's own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his/her use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

THIS PUBLICATION SUPERSEDES ALL OTHERS

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<p>B. MEMBRANE APPLICATION</p> <p>1. Detail all flashings, edges, turn ups and cracks with a thickened Dura-Lastic Membrane Mixture. Feather to smooth demarcations.</p> <p>2. Apply a uniform coat of Dura-Lastic to the entire surface at the minimum rate of 2-½ gallons per 100 sq.ft. (40 mils minimum) carrying this mixture evenly over the detailed areas. (2 gallons of Dura-Lastic plus 2 quarts-25%-of water equals 2-½ gallons of Membrane Mixture. Note 40 mils is a minimum membrane thickness. Depending on the condition of the substrate and especially in those cases where the substrate is rough and/ or degraded or pitted due to heavy shotblasting, additional mil thickness will be required. Please check with your local Dura-Systems distributor or Silvertree Products Technical Service Department for further information.</p> <p>3. After applying the Dura-Lastic Membrane, let it stand until the membrane has slightly gelled, then broadcast the selected rubber texture granules over the entire surface to refusal.</p> <p>4. When membrane will accept foot traffic, remove all the excess rubber texture granules with a broom and/or vacuum and save for reuse. Make any repairs necessary to imperfections or defects. Let repairs cure.</p>	<p>C. TRAFFIC WEAR SURFACE TOPCOAT:</p> <p>1. Identify the heavy wear areas that are to receive extra attention as described in the Surface Texture section of this Specification. Deal with those areas first and then proceed on to the next step. This way, the added texture and Dura-Flex that will add additional protection to those high wear areas will be applied prior to the application of the final texture coat application and final Dura-Flex application to the entire deck area. By doing it this way, the final Dura-Flex application across the entire deck blends in these pre-detailed areas and helps make for a neater and tighter total application. (As described in the Dura-Systems ADVISORY "BACKROLLING - Why, When & How" in the section titled "HINT: Apply the second coat first) Apply an aggregate binder coat of the Dura-Systems Dura-Flex to the areas needing extra wear protection at the rate of one gallon per 100 sq.ft.. Broadcast the 16 mesh flint shot aggregate texture into this wet Dura-Flex at the rate of ¼ lb. per sq.ft. and toughly backroll the texture into the wet Dura-Flex. This step will provide an additional protective wear coat layer of 12 mils of topcoat and an additional layer of flint shot aggregate texture to those areas identified as needing extra heavy wear protection.</p>	<p>2. Using a squeegee and medium nap roller, uniformly overcoat and backroll the entire membrane and rubber texture surface with the Dura-Flex. Spread the Dura-Flex at the rate of 80-100 sq.ft. per gallon. As the Dura-Flex is being applied, broadcast the approved size flint-shot aggregate texture into the wet Dura-Flex at the rate of ¼ lb. per sq.ft. Toughly and uniformly backroll the texturing aggregate into the wet Dura-Flex. When broadcasting, spiked shoes may be worn in order to walk out onto the wet Dura-Flex surfaces. Stay clear of the application wet edge. When the first Dura-Flex coat is dry (and within 36 hours) Apply Dura-Flex UV Top Coat at the rate of 100 sq.ft. per gallon. Refer to the Dura-Systems ADVISORY "BACKROLLING – Why, When & How" for further information.</p> <p>V. WARRANTY: Except for specifically designated and overseen jobs, warranties are limited to those which are standard with the application contractor, who has total control over substrate bonding and Dura-System application integrity and aesthetics.</p> <p>Refer to our web site www.silvertreedistributors.com</p>
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