

**3.7 Reinforcing Aggregate:** Shall be rounded, non angular, blended 20 mesh or 30 mesh flint shot silica, Monterey aggregate, colored quartz aggregate or equivalent quality and sized, washed and kilm dried aggregate.

## 4. SUBSTRATE PREPARATION

### 4.1 Plywood Surfaces:

4.21 Sweep all plywood joints clean and free of sawdust. Fill all separations over 1/16 inches in width with polyurethane sealants. Apply joint reinforcement consisting of a brush coat of TUFFLEX "SOFT" Elastomeric Detail Membrane 30 mils thick, 5 inches wide, centered over all joints and transitions to metal flashings, drip-edges, etc. Imbed 4 inch wide TUFFLEX "PW" or "WG" reinforcing fabric into the wet membrane. Allow the detail membrane to cure overnight or until firm.

4.22 Damaged plywood panels shall be repaired or replaced prior to coating.  
4.23 Any expansion and contraction joints shall be cleaned, primed, fitted with a backing rod and caulked with TUFFLEX "SOFT" or elastomeric polyurethane sealants.

### 4.2 Flashing:

4.21 All required joint reinforcement, flashing reinforcement and metal to deck reinforcement shall be installed at this time.

4.22 All metal shall be delivered shop primed and then be field primed with TUFFLEX Epoxy (for metal surfaces which may exhibit adhesion difficulties, first prime with a zinc chromate, marine-grade epoxy primer).

## 5. APPLICATION OF MEMBRANE

**5.1 Preparation:** Prior to commencing with the application, all surfaces to be coated shall be dry and free from any surface contaminants or cleaning residues.

**5.2 Primer:** Apply the TUFF-POXY Primer #2 or Primer #3 at the approximate rate of 250-350 square feet per gallon. Allow primer to dry until it is tack free. Within 8 hours of application of the primer, the TUFFLEX "TUFF" Elastomeric Base Membrane must be applied. If the membrane cannot be applied within 8 hours then reprime.

**5.3 Mixing:** The properly mixed and properly catalyzed TUFFLEX "TUFF" Base Membrane shall be trowel, squeegee or roller applied in one uniform coat at the minimum rate of 4 gallons per 100 square feet in order to obtain a minimum wet dry film thickness of 64 wet mils. Allow this installation to cure 12-24 hours before proceeding to next step. Do not apply this waterproofing system over working or control joints greater than 1/2 inch wide.

**5.4 Rubber Texture:** After the application of the TUFFLEX "TUFF" Membrane, let it stand until the membrane has slightly jelled. Then broadcast the rubber texture granules over the entire surface until refusal. While the coating is still fluid, spiked shoes may be used in order to walk out onto the wet membrane and broadcast the rubber granules while keeping clear of the application wet edge.

**5.5 Top Coat:** Thoroughly and uniformly mix one pail of TUFFLEX Color-Coat Al-Ester (include the FR POWDER when needed) and dump the entire mix onto the floor surface and spread uniformly with a notched trowel or squeegee. Backroll with a short to medium nap roller. Apply at the minimum rate of 100 square feet per gallon in order to obtain an average topcoat thickness of 16 wet mils. Immediately and uniformly broadcast the 30 or 20 mesh aggregate to refusal into the wet top coat at the rate of 45 to 60 lbs. per 100 square feet. *Note:* It is always recommended that the proper quantity and proper size of aggregate is applied

**5.6 Top Coat:** After a 16 to 24 hour cure remove excess or unbonded aggregate. Apply a second application of Color-Coat AL-Ester Top Coat by thoroughly mixing one pail (include the FR POWDER when needed) and dumping the entire mix onto the floor surface and spread uniformly with a notched trowel or squeegee. Apply at the minimum rate of 100 square feet per gallon in order to obtain an average topcoat thickness of 16 wet mils. Backroll with a short to medium nap roller.

**5.7 Curing:** Allow the top coat to cure 24-36 hours at 75° F before subjecting to light traffic. For a rapid cure add Color-Coat Accelerator to the Top Coat before installation.

**6. THICKNESS:** The minimum dry film thickness of the completed waterproofing system, excluding aggregate, shall average 80 mils.

## 7. MAINTENANCE

The waterproofing system should be cleaned with a free-rinsing, non-abrasive detergent as often as necessary following recommended practices of the maintenance industry. Tar, chemical or mineral deposits and scuff marks should be removed by wiping with isopropyl alcohol or a mild commercial grade water-based cleaner. Greater slip-resisting characteristics can be obtained by increasing the size of the aggregate. However, increasing the textured qualities of the waterproofing system also increases the maintenance efforts to remove dirt and film residue.

## 8. GUARANTEE / WARRANTY

When this Elastomeric Coating System is installed by a Factory Qualified Applicator, is inspected and approved in accordance with these specifications, and after receipt of the final payment, the Factory Qualified Applicator shall issue their standard and customary installation guarantee covering defects in material and workmanship.

TUFFLEX POLYMERS warrants its products to be free of defects in workmanship and materials only at the time of shipment from our factory. If any TUFFLEX materials prove to contain manufacturing defects that substantially affect their performance TUFFLEX will, at its option, replace the material or refund the purchase price.

The dollar value of TUFFLEX'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the TUFFLEX materials in question.

PED-ON-PLYWOOD (10)