



Permanent & Seamless Rubber Surface
(USDA Approved & LEED Certified)

Architectural Specifications
(Revised January 1, 2010)

PART I – GENERAL

1. DESCRIPTION

- a. All necessary material components for Equi-Turf Seamless Flooring will be manufactured and obtained from Equi-Turf Inc.
- b. All installations of Equi-Turf Seamless Flooring will be done by Equi-Turf Inc. only.

2. QUALITY ASSURANCE

- a. Qualifications
 - I. Equi-Turf Seamless Flooring is installed and marketed through our own staff of professional applicators and is used and specified by cities, public/private institutions, and various government agencies.
 - II. Applications are all in house, and have gone through training and licensing procedures with a certified Equi-Turf representative.

3. DESIGN AND DETAILING

- a. Equi-Turf Seamless Flooring is utilized in many applications from Equine Facilities, Bovine Facilities, Canine Facilities, Office Environments, Water Park Environments, and to a host of other scenarios.
- b. Acceptable sub-bases are concrete, asphalt, and compactable crushed stone. Other sub-bases must be approved by a representative of Equi-Turf Inc.
- c. Base conditions regarding structural performance must be approved prior to application of Equi-Turf Seamless Flooring.

4. PROJECT CONDITIONS

- a. Ambient air temperatures shall be 40 degrees Fahrenheit or greater and rising at the time of installation of the system and shall remain at 40 degrees Fahrenheit or greater for 48 hours after completion of installation.
- b. All materials shall be protected from weather, vandalism and other damage before, during and after application to ensure proper curing.
- c. Human foot traffic only is allowed on Equi-Turf completed surface for 24 hours after installation of final top coat to make sure the surface has completely cross-linked, so no damage may occur.

5. DELIVERY, STORAGE AND HANDLING

- a. All materials shall be delivered in good condition in original unopened packages with all labels and documentation intact.
- b. Materials shall be protected from weather and stored at room temperature, not less than 40 degrees Fahrenheit

PART II – EXECUTION

1. INSPECTION

- a. Prior to application of Equi-Turf Flooring, the applicator will evaluate the sub-base for grade structural performance. The applicator will notify the contractor and/or architect of any and all discrepancies and will proceed only when the conditions are corrected or if he/she is supplied with the written notice acknowledging the existing condition and waiving the applicator and supplier of any and all responsibility if reference to the project and damages future, past and present that may occur due to existing conditions. This notice to proceed will void any and all warranties associated with said project.

2. INSTALLATION

Equi-Turf, Poured-in-Place Seamless Flooring

- a. The sub-base shall have a specific minimum 2% slope and shall not vary more than 1/8" when measured in any direction with a 10' straight edge. Where concrete base is used, it shall have a lightly broomed finish and must cure for 30 days, asphalt must cure for 14 days to allow all oils to release. When using compacted stone base, this must be mechanically compacted to a 95% compaction ratio.
- b. The surface thickness will vary in the cushion course according to the required durometer of the floor. The exact thickness shall be submitted by an Equi-Turf estimator and a copy submitted to the architect prior to the installation of the surface. The required thickness within a continuous surface area may vary from room to room in order for a smooth uniform transition. The sub-base may have to be recessed to allow for different heights of the flooring.
- c. Primer shall be applied as needed at the rate of 300 square feet per gallon to asphalt or concrete perimeter using a short nap roller or spray equipment.
- d. The base mat (if needed for extra cushion for wash stalls and breeding areas) shall be mechanically mixed using a mortar mixer at a ratio of one 50lb bag of 4-8 mesh buffings and one 50lb bag of 5/8" granule to 12lbs of Premium Binder. The materials shall then be poured-in-place and hand troweled at the specified thickness. Using a beam to determine depth of base, straight edge and strike off excess material to desired thickness, trowel as required to smooth finish. Allow the base mat to cure, usually 8-24 hours, depending on temperature and humidity. In some smaller applications the base course and the cap can be installed at one time.
- e. The top-rubber course: Apply primer to the base mat at a rate of 300 square feet per gallon. If base mat is tacky when top surface is applied, there is no need to prime. If not, mix urethane binder in a ratio of 1:1 with ethyl acetate and prime base mat. The wearing course shall be installed at a minimum thickness of 1/2". The wearing course shall have a surface weight of 2.4lbs per square foot. The wearing course shall be mixed using appropriate color combination of EPDM rubber and Premium Binder by a mechanical mixer (mortar mixer) until all granules are uniformly coated with binder. EPDM surface materials shall be mechanically mixed at a ratio of one 55lb bag to 111lbs of Premium Binder. Using 5/8" beam to achieve uniform thickness, straightedge and strike off excess material, trowel as required to smooth finish. For compacting, lubricate trowel with mineral spirits or diesel fuel. Allow 48-72 hours curing time (depending on temperature) before allowing foot traffic on area. To assist in curing a light mist of water may be applied.
- f. The final top coat will be applied after all prepared surfaces have been protected from over spray and the base courses are completely cured.

3. SECURITY

Security is an essential part of every application. Protection of the uncured surface should be a primary concern. Unless prior agreements, the installation

crew will be responsible for the initial security until surface cures lowering the chances of imprint from foot traffic. Foot traffic must be restricted on both the base and top course installations to ensure proper curing and aesthetics. Finished system must cure 24 hours (pending ambient temperature) prior to use.

4. CLEANING

Perform cleaning during installation of the work and upon completion of the work. Remove from the site all excess materials, debris and equipment.

PART III – MATERIALS

1. GENERAL

- a. Unique Surfacing, LLC has been tested for the following:
 - I. SKID RESISTANCE (ASTM E303)
 - II. SMOKE DENSITY (ASTM E662)
 - III. FLAMMABILITY (ASTM D2859)
 - IV. ABRASION RESISTANCE (ASTM D1044)

Printed test results will be provided upon request.

- b. Equi-Turf shall be a non-porous and non-slip surface.
- c. Equi-Turf Primer: single component moisture cured polyurethane primer mixed with ethyl acetate at a rate of 1:1.
- d. Equi-Turf uses Premium Binder: This binder is a single component MDI, aromatic binder with a slight odor manufactured to withstand extremes in temperature and weather.
- e. Equi-Turf SBR buffings/shred: This rubber is **100% recycled** and screened to 4-8 mesh strands containing less than 2% dust. This material is conveniently packaged in 40 lb bags and mixed 1:1 in the base mat.
- f. Equi-Turf 5/8" granule: This rubber is granulated through a 5/8" screen and contains less than 2% dust. This material is conveniently packaged in a 50lb bag and is mixed 1:1 in the base mat.
- g. Equi-Turf uses Premium black rubber that is UV stable and is sized from 1-3mm. This material is **100% recycled** from post-industrial scrap rubber. Tire rubber is not used nor accepted for our Premium black rubber.

2. BASE OPTIONS

- a. Asphalt: Requires minimum thickness (typically 2") for non-weight bearing loads per the standards of the geographic region and must cure for at least 14 days. No slope is recommended.
- b. Concrete: Requires minimum thickness (typically 4") for non-weight bearing loads per the standards of the geographic region and must cure for at least 30 days. No slope is recommended.
- c. Crushed stone:
 - I. 95% Standard Proctor Compaction (as per ASTM Test) is of the critical importance.
 - II. Stone for the base **MUST** be crushed so it compacts to the above standard and should be a homogeneous mix of the following sizes:

Sieve Size	% Passing by Weight
1"	90 – 100
5/8"	50 – 80
1/4"	30 – 50
#4	14 – 35
#8	10 – 30
#30	3 – 5
#200	0 - 3

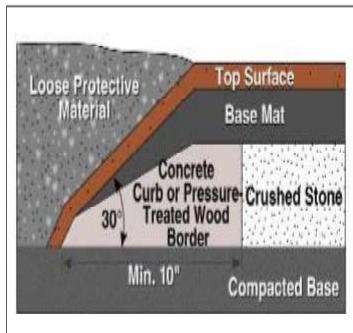
- III. Minimum depth of crushed base should be 4".
- IV. Base must be level.
- V. Base is flat, and does not exceed 1/8" difference within 10' in any direction.

- d. Other bases: Bases other than asphalt, concrete or crushed stone must be approved by the factory representative.

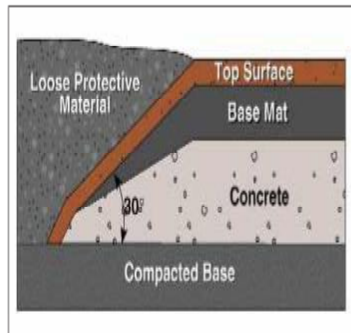
3. MAINTENANCE

- a. Although it is not required, power washing (Do not exceed 1500 psi) will improve the aesthetic appearance of the surface. This may be done 1 to 2 times per year.
- b. For stain removal, the use of the commercial or household detergent soap that is not caustic, acidic or solvent based, mixed with warm water is recommended.
- c. A plastic shovel is recommended for snow removal. DO NOT use metal shovels, snow blowers or ice picks. Except for pure salt (NaCl), chemical based materials should not be used for ice removal.

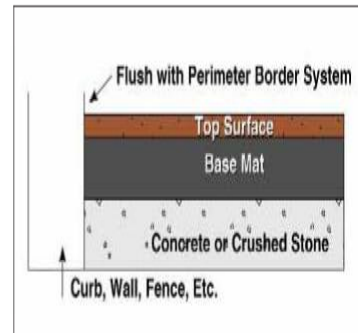
4. EDGING DETAILS



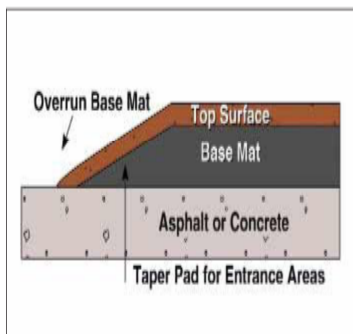
Typical Edge Detail: Loose-Fill with Crushed Stone (contained)



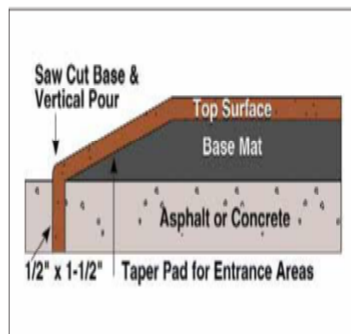
Typical Edge Detail: Loose-Fill with Concrete



Typical Edge Detail: Flush



Typical Edge Detail: Overrun



Typical Edge Detail: Saw Cut

Maximum 4" coving up the wall is also acceptable around the edges where Equi-Turf Flooring will butt up to the wall.