

Safety Turf, Inc. Specifications

Part 1 - General

1.1 Work Included

This work includes finishing and installing the specified safety surface.

1.1.1 Description of System

Safety Turf shall be poured-in-place to provide a resilient, rubber surface installed over a base as specified. The surfacing contractor shall be responsible for all labor, materials, tools, and equipment to perform all work and services for the installation of the surface.

1.1.2 Quality Assurance

Impact attenuation test results will be provided to the owner's representative. This will also include HIC test results. Test results shall meet or exceed ASTM-F1292-04 Impact Attenuation Guidelines of 200 G's or less from the actual fall height. HIC test results shall be less than 1000 at this fall height. Surface shall be accessible per **ASTM- F1951-99 Determination of Accessibility of Surface Systems under and Around Playground Equipment**. Surfacing should be installed per ASTM and CPSC guidelines.

Part 2 - Products

2.1 Acceptable Manufacturer

Safety Turf, Inc., P.O. Box 908, 201 N. 4th Ave., Royersford, PA 19468, 610-792-0967 Fax: (610) 792-1768.

Any product or surfacing contractor that has not met the prior approval requirements of this section shall not be approved.

2.1.1 Materials

Poured Base Layer - A precise combination of recycled SBR and Butyl rubber mixed on site with a MDI polyurethane prepolymer binder. Rebase® may be used in conjunction with base rubber for thicknesses over 3".

Poured 1/2" Top Layer - EPDM or TPV rubber granules (1-4mm size) and a solvent free, enhanced UV stable, MDI polyurethane prepolymer binder (Note: An aliphatic Binder may be used if initial "yellowing" of light colored granules is undesirable)

Color- Colors will be chosen by owner or owner's representative

Part 3 - Procedure

3.1 Sub Base

- a) If the surface is existing (or new) asphalt or concrete, a not larger than a 1" deep by 1" wide keyway is to be cut into surface along the perimeter of the safety surface area. This will provide for a stopping point for the beveled perimeter edge allowing for a barrier free accessibility.
- b) If asphalt or concrete is not used, then the sub base will be a compacted stone base. This base shall be prepared with a minimum of 4-6" of 2B (clean) stone that is spread and compacted to a flat surface leaving the thickness of the required safety surface below finish level.

Please note that a greater thickness of stone may be required if the existing material being removed is, for example wood chips.

3.1.1 Installation

Thickness - Total minimum depth of the safety surface will be 2". The thickness may be adjusted to meet the fall height requirements noted in section 1.1.2.

Poured Base Layer - The 1 1/2" min. layer of recycled SBR/Butyl will be mixed on site with a MDI polyurethane prepolymer binder in a mortar mixer. Mix until they are coated uniformly. This layer will be poured in place by means of a screed and hand trowel. Edge conditions shall be per project requirements. The minimum temperature requirement for installation of the base layer is 40 degrees and rising. Cure time increases at lower temperatures and humidity.

(Note: This layer will be adjusted to the correct thickness per fall height requirements. Rebase® may be used in conjunction with rubber base layer for thicknesses 3" or better.)

Poured Top Layer - The 1/2" poured top layer shall be composed of EPDM or TPV granular rubber. The EPDM or TPV rubber is mixed on site with a MDI polyurethane prepolymer binder in a mortar mixer. Mix granules until they are coated uniformly. The top layer will be poured-in-place and hand trowel or rolled. If the safety matting is installed over existing asphalt or concrete, the EPDM or TPV granules will be troweled into the keyway to provide a smooth transition from the existing surface onto the safety matting. The minimum temperature requirement for installation of the top layer is 50 degrees and rising. Cure time increases at lower temperatures and humidity. Day seams may be required for areas greater than 3,000 square feet.

Edges - Surface edges shall be flush with the edge of adjacent area, or be such that there is a smooth transition onto the safety matting from the existing surface, or per owner's requirements.

Porosity - Surface shall be porous to the extent of allowing the equivalent of 12" per hour of rainfall to flow through it.

Traction - Surface shall be non-skid, wet or dry.

Softness - Surface deflection with a 30 lb. Load shall be 1/4" to 1/2" with 99% recovery.

Health & Environment After Curing - Surface shall be non-toxic, non-allergenic and non-polluting.

3.1.3 Protection

The safety surface should be protected from foot traffic for a minimum of 24 hours after installation to allow surface to cure.

Note: This curing time may be longer in colder weather.