



EVERGUARD SURFACING

111 Ralph Avenue

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BARN FLOOR 100 SURFACE

DESCRIPTION

Resilient, water permeable, synthetic rubber surface comprised of polyurethane binders, processed SBR rubber particles, and EPDM rubber granules installed over a variety of suitable bases at a compacted thickness of 1 ½ to 4 inches to comply with the Consumer Products Safety Commission guidelines.

MATERIALS

- A. EPDM RUBBER – The rubber granules for the top layer shall be EPDM peroxide cured, man made rubber containing a minimum 20% EPDM and having a density of 1.50 + or – 0.05 and chopped to 1-3 mm. size. The EPDM rubber granules shall be protected from moisture as described above.
- B. POLYURETHANE BINDER – Binder for the Barn Floor 100 Surface shall be an MDI based one component, polyurethane binding agent. The binder shall not have a free TDI monomer level above 0.8%, must be clear in color, and must be solvent free. The binder shall be specially formulated for compatibility with SBR and EPDM rubber granules. Specific gravity for the binder shall be 1.07 + or – 0.03.

MIXTURE COMPOSITIONS

Job mix formulas shall be as follows:

A. EPDM TOP LAYER

EPDM rubber granules 1-3 mm.	80% by weight
Polyurethane Binder	20% by weight

INSTALLATION

The following procedures shall be followed to ensure a quality installation of the playground safety surface.

WEATHER

BARN FLOOR 100 SURFACE can be installed when the weather is at a temperature of 35° and steady. No installations can be made when the forecast calls for freezing temperatures, snow or rain. The area must be dry during the entire installation process.



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BASES

BARN FLOOR 100 SURFACE can be installed over concrete, asphalt, compacted crushed stone, and existing flooring systems. New concrete bases shall be allowed to cure a minimum 3 days and new asphalt bases shall be allowed to cure a minimum 7 days prior to installation of the safety surface. Crushed stone bases shall be checked for planarity and proof compacted prior to installation.

PRIMER

All hard bases shall be coated with an approved polyurethane tack coat at the rate of 0.06 gal./sy applied by either a short nap roller or airless spray equipment. Make primer by mixing small amounts of urethane with the same amount of mineral spirits.

GEOTEXTILE FILTER FABRIC

Crushed stone bases shall be covered with a support/filter fabric such as AMOCO 4545 or equal. All seams shall be overlapped a minimum 4 inches.

EPDM TOP LAYER

The colored EPDM rubber granules and binder are blended together at a ratio of 80/20 in a mechanical mixer until all the EPDM rubber granules are coated with binder. The blended material is then spread onto the cured cushion base and leveled to the proper elevation using gauge bars equal to the required thickness. Curing time is the same as described above for the cushion base. It is recommended to allow an additional 24 hours curing time prior to opening the area to play.

POROSITY

Material shall be porous as to allow water to percolate at the rate of 10 gallons per minute per square foot.

CLEANUP

On completion of the surface, remove all excess materials, and properly dispose of all empty containers and construction debris.