



Safety

It has been estimated that approximately 200,000 playground injuries requiring emergency room visits occur each year. Statistics indicate that approximately 70% of those injuries are related to falls. Ure-tech surfaces exceed current standards for impact attenuation and maintain their resilience year-round providing safety and access to a play area, while reducing liability. Our urethane bound systems do not retain water and do not freeze in cold temperatures - providing a truly all weather surface!

Compliance

Ure-Tech Surfaces have been tested for impact and shock absorbing properties in accordance with ASTM F2479-07 and CAN/CSA-Z614A.

Economy / Versatility

We provide high quality EPDM custom surfaces. With more than 10 years experience, we have developed unique base preparation methods that allow us to convert existing sites at reduced costs by reusing and recycling existing materials.

Performance / Guarantee

Not only do our surfaces meet safety surface performance requirements, we provide a full five year guarantee against delamination, cracking, wear through, loss of resilience, and base settlement or failure.

Environmental Concerns

Our EPDM surfaces use recycled rubber particles in the base mat. Our polyurethane binders and our unique and proprietary conversion methods allow us to reuse and recycle most existing bases within a playground.

Industry Standards for Safety Surfacing

	Industry Standard	Ure-Tech
ASTM F-1292		
gMax - max. allowable impact	200 gMax	125 gMax
HIC - meas. - Head Injury Criteria	1000 HIC	750 HIC
Guarantee.....	6 to 12 mths.	5 years
Base warranty.....	none	5 years
Environmental concerns	no	yes
Surface thickness	1/4" to 3/8"	1/2" to 3/4"
Surface binder content	20%	25%

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PlaySoft Surfacing Specifications

PART 1 General

This specification covers the performance requirements, submittals, materials, base preparation, layering, installation and guarantee of poured-in-place safety surfacing.

Performance Requirements

- 1.1 Ure-Tech safety surfaces installed within equipment use zones shall exceed the performance requirements for impact attenuation and Head Injury Criteria as per CAN/CSA Z-614A confirming a maximum deceleration of no more than 200 g's and a HIC value of no more than 1000 as per ASTM F-2479-07 and CAN/CSA Z-614A method of testing.
- 1.2 The impact attenuation performance shall be documented by a certificate of compliance and shall be performed using Triax 2000 non-destructive testing apparatus within 30 days of installation.

Submittals

- 1.4 The following shall be submitted:
 - 1.4.1 Manufacturers description of product, installation methods, base preparation and maintenance instructions.
 - 1.4.2 Detailed shop drawings of safety surfacing edging details, material thickness and base construction.
 - 1.4.3 Colour chart of available colors.
 - 1.4.4 MSDS sheets for materials used to construct the same.
 - 1.4.5 Test results confirming product has been tested and in compliance with ASTM F-2479-07 and CAN/CSA Z-614A.
 - 1.4.6 Statement from the Manufacturer that the system to be installed shall only be performed by authorized and trained personnel.
 - 1.4.7 Statement from Manufacturer that the binders used in the system have been specifically designed for playground surfacing.
 - 1.4.8 A Certificate of Insurance for general and liability of no less than \$2,000,000.00.
 - 1.4.9 Sample of the surface system minimum size being 3" x 3".

PART 2 Materials

- 2.1 Base Construction: ensure that any and all contaminated material and wood fiber systems are removed and properly disposed of. Construct new base or recycle existing materials as per Ure-Tech specifications to provide a stable firm base on which to install safety surface system.
- 2.2 SBR rubber products shall not contain any metals or fiber from tire processing and shall meet the following gradations:
strand rubber: .5 mm - 2mm thickness by 3mm to 20mm in length,
granulated rubber: 1 - 3.5 mm.
- 2.3 EPDM rubber shall meet ASTM D 412 for tensile strength and elongation with a shore harness of 50 - 70, shall be peroxide cured with an EPDM content of 26%.
- 2.4 Polyurethane binders shall be specially formulated for playground surfacing, shall contain no TDI, filler minerals such as plasticizers, catalysts, extenders or heavy metals. Weight of polyurethane shall be no less than 8.5 lbs./gal (1.02 Kg/l). Pigments shall contain no heavy metals and shall be 100% moisture free.

PART 3 Playground Surfacing

Base Preparation

- 3.1 In order to ensure the consistent performance of the safety surfacing, bases must be constructed to ensure a firm, stable and draining foundation for the surface. Any and all contaminated materials or materials that are subject to decomposition or expansion shall be removed and disposed of.
- 3.2 Ensure drainage of the base material is existing or install drainage system under the safety surfacing system.
- 3.3 Construct bases as per Ure-Tech specifications for various site conditions as listed below. Ure-Tech cannot guarantee a safety surface over bases that do not meet the base requirements.
 - 3.3.1 Asphalt, concrete or compacted stone bases.
 - 3.3.2 Conversion of existing sand or pea gravel.

Surface Installation

- 3.4 After the stone base has been constructed to Ure-Tech specifications, graded and compacted to proper slope and elevations, install R-100 geotextile filter fabric over base, overlapping all joints by 6". Provide protection to curbs, sidewalks and play equipment to eliminate polyurethane residue on the same.
- 3.5 Polyurethane and strand SBR rubber for base mat and wearing course shall be thoroughly mixed on site to ensure 100% coverage of all particles and poured in place to required thickness to meet critical height criteria of play equipment. Allow 24 hrs. to cure.
- 3.6 Prior to installing wearing course, the edging shall be primed with diluted polyurethane binder.
- 3.7 Surface layer of EPDM rubber shall be thoroughly mixed on site to ensure 100% coverage of all particles and poured in place by means of rakes and screed bars and compacted to required density by use of hand trowels and rollers.
- 3.8 EPDM rubber shall be peroxide cured.

Cleanup

- 3.9 Remove any spills or residue that may make contact with structure or surrounding curbs or sidewalks. On completion of work and the 24 hr. cure time, remove all protection provided for the same.

PART 4 Installer Services

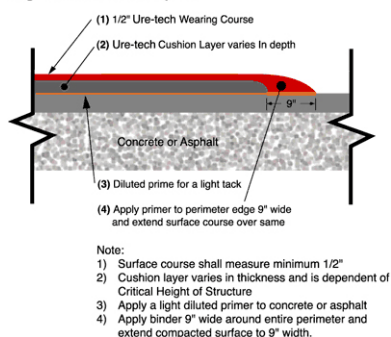
- 4.1 100% coloured EPDM or 100% pigmented EPDM surfaces are available to meet budgets. Clear and pigmented binders are available for resurfacing existing areas providing additional protection from ultraviolet light and revitalization of existing sites. These binders can be installed by owners or Ure-Tech trained personnel.

For more information, contact:

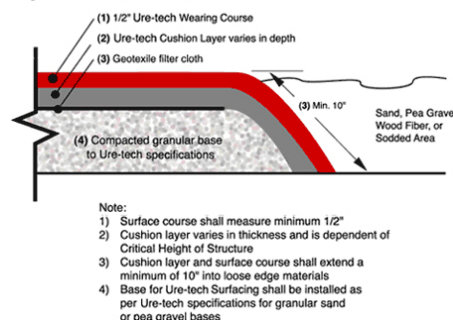
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PlaySoft Installation Drawings (Typical)

Edge on Concrete or Asphalt



Edge Detail For Loose Materials



Edge Detail At Curbs

