

# Specifications

## Vitriturf TK ST Playground System

## Poured In Place Safety Surfacing

### PART I -- GENERAL

1.00 SCOPE: This is a Manufacturer's Specification on the Playground version of the VITRITURF TK System.

1.01 DESCRIPTION: Provide all labor, materials and equipment necessary to install the VITRITURF TK System.

#### 1.02 QUALITY ASSURANCE

##### A. Qualifications

1. VITRITURF shall have marketed this system in the United States for at least five years.

2. The Applicator shall be trained and registered by VITRITURF

##### B. Design and Detailing

###### 1. General

a. VITRITURF TK System is utilized wherever an impact, absorbing cushioned surface is required.

Playground areas should meet criteria set by the CPSC.

###### 2. Substrate and Substrate Systems

a. Check with Vitriturf Representative for specific application to existing substrate.

3. Acceptable Substrates for the VITRITURF System include grass, dirt, mulch, sand and compacted stone.

4. Other Substrates shall be approved by VITRITURF prior to application.

5. The Trained Applicator shall verify that the proposed Substrate is acceptable with application of the VITRITURF System.

6. Substrate Systems shall be engineered with regard to structural performance.

7. Follow VITRITURF's published details with specific recommendations for this project.

#### 1.03 SUBMITTALS:

A. Trained Applicator shall submit 6" x 6" 1220mm) samples of the VITRITURF System.

#### 1.04 DELIVERY, STORAGE AND HANDLING

A. Deliver all materials in original unopened packages with labels intact. B. Store all materials protected from weather and at temperature not less than 40 F (4 C).

#### 1.05 JOB CONDITIONS:

A. Ambient air temperature should be 32 F at the time of installation of the VITRITURF System. The System may be installed with temperatures below 40. The temperature only affects the system in workability of the materials and the dry time.

The lower the temperature, the thicker the viscosity of the binder and the dry time may become delayed.

B. The VITRITURF System shall be protected during installation while curing and/or unattended from weather and other damage.

#### 1.06 ALTERNATES AND ALLOWANCES:

A. Systems to be considered equal to those specified herein shall be approved by then Architect, in writing, at least ten working days prior to the project bid date.

### PART II -- PRODUCTS

2.01 GENERAL: All components of the VITRITURF System shall be obtained from VITRITURF or its authorized distributors.

No substitutions of, or additions of, other materials shall be submitted without prior written permission from VITRITURF.

#### 2.02 MATERIALS

A. VITRITURF Wire Mesh: A welded wire mesh meeting the requirements of the Vitriturf TK System.

B. VITRITURF TK BINDER: A proprietary, elastic Polyurethane Pre-Polymer, MDI based. Extremely low odor, capable of excellent weathering and binding characteristics. Binder shall contain no TDI Monomers.

C. VITRITURF Black SBR: Shall be recycled SBR Rubber, shall be cryogenically processed, be chopped to 1-3mm or 3/8" shredded granules and contain less than 4% dust and shall be packed in suitable bags to protect SBR from moisture.

D. Vturf ST Synthetic Grass Synthetic grass consisting of fibers that are a minimum of 1 inch long. Vturf ST fiber construction consisting of polyethylene monofilament and either texturized monofilament fibers tufted to a 2-layer stabilized woven polypropylene fabric (primary backing), with a secondary backing (stitch binder).

E. Synthetic Grass Infill: Consisting of anti-microbial acrylic coated round silica particles, designed to provide the look feel, and performance of optimally maintained natural grass. EnviroFill™

F. The VITRITURF Playground System shall have been tested for shock attenuation under ASTM-F-1292 and HIC. Tested for non slip characteristics under ASTM-E303, ease of ignition under BS-5696 and ASTM-D-2859 for fire resistance under UL94.

2.03 MIXING AND PREPARATION: A. Mixture of binder/EPDM or binder/SBR will be determined by the system which is specified.

### PART III-- EXECUTION

#### 3.01 INSPECTION:

A. Prior to application of VITRITURF TK System the Substrates shall be examined for compliance with the contract documents of VITRITURF specifications. The General Contractor and Architect shall be advised of all discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

#### 3.02 INSTALLATION:

##### VITRITURF Playground System

1. VITRITURF Wire Mesh: Lay wire mesh over flat ground surfacing.

2. VITRITURF SBR Base Mat

a. Mix SBR to VITRITURF Binder in a ratio of 82/18 and spread evenly at specified thickness. Compact and allow to dry for 24 hours.

3. Install Vturf ST Grass System