

# VITRITURF®

CUSHIONED SEAMLESS FLOORING SYSTEM

*Poured In Place  
Surfacing.*

*Simply The Best...*





## WHAT'S IT ALL ABOUT?

**THE VITRITURF  
PLAYGROUND SYSTEM**  
IS COMPRISED OF A BASE MAT  
CONSISTING OF 100% RECYCLED  
MATERIALS MIXED WITH A PROPRIETARY  
POLYURETHANE BINDER AND A  
WEARING COURSE COMPRISED OF  
EPDM RUBBER AND A PROPRIETARY  
POLYURETHANE BINDER.





**VITRITURF IS A UNIQUE Poured IN PLACE SAFETY SURFACING SYSTEM PROVIDING A SEAMLESS, POROUS, SAFE AND AESTHETIC SURFACING.**

**BECAUSE THE COMPONENTS ARE MIXED ON SITE. THE THICKNESS MAY CHANGE DUE TO VARIOUS PLAYGROUND DECK HEIGHTS AND DESIGN CRITERION.**

**CUSTOM DESIGNS AND LOGOS MAY BE INSTALLED TO CRATE THE ULTIMATE PLAY ENVIRONMENT.**





**RELAX...  
WE HAVE IT  
COVERED**

**SERVICE IS THE KEY IN PROVIDING FOR A SUCCESSFUL PROJECT. VITRITURF HAS A NATIONAL NETWORK OF REPRESENTATIVES OFFERING TECHNICAL SUPPORT AND SITE INSPECTIONS. VITRITURF HAS FACTORY TRAINED INSTALLATION CREWS LOCATED STRATEGICALLY THROUGHOUT THE UNITED STATES.**





## **THE GLUE THAT HOLDS IT ALL TOGETHER**

THE VITRITURF BINDER WHICH IS MIXED WITHIN THE BASE MAT AND WEARING COURSE IS THE KEY INGREDIENT. VITRITURF UTILIZES ITS OWN BINDERS SPECIFICALLY DESIGNED FOR THE RECREATION AND ATHLETIC INDUSTRIES.

THE STANDARD BINDER IS AN AROMATIC POLYURETHANE. THE STANDARD BINDER WILL AMBER WHEN EXPOSED TO UV RAYS.



VITRITURF PREFERENCES TO UTILIZE ITS ALIPHATIC BINDER WHERE CERTAIN COLORS OR DESIGNS NEED TO REMAIN "COLOR FAST".



## **WE PAY ATTENTION TO THE DETAILS**

**THE DETAILS ON A PROJECT IS WHAT SETS VITRITURF APART FROM THE COMPETITION. VITRITURF CAN PROVIDE INSTALLATION FOR THE MOST ELABORATE DESIGNS.**



**AT VITRITURF, WE TAKE PRIDE IN THE FACT THAT OUR CREWS PAY ATTENTION TO THE EXPLICIT DETAILS. WE CUT, MEASURE AND APPLY ONE COLOR AT A TIME IN ORDER TO PROVIDE THE OWNER OR ARCHITECT THE DESIGN THEY ENVISIONED.**





GREEN IS OUR DETERMINATION



LEED CREDITS ELIGIBILITY



**VITRITURF**  
CUSHIONED SEAMLESS FLOORING SYSTEM

-100% RECYCLED SYSTEMS  
-100% ORGANIC SYSTEMS

## COMMITMENT TO OUR PLANET.

COMMITMENT TO OUR PLANET IS ONE OF OUR MOST IMPORTANT COMPANY MISSION STATEMENTS. EVERY YEAR, WE UTILIZE OVER 2 MILLION POUNDS OF RECYCLED RUBBER IN OUR SYSTEMS.

VITRITURF HAS DEDICATED RESEARCH TO DISCOVER NEW RECYCLABLE MATERIALS TO UTILIZE IN ITS SYSTEMS, TRYING TO PREVENT WHAT MIGHT NORMALLY HAVE BEEN SENT TO A LANDFILL AS WASTE.

VITRITURF IS AVAILABLE IN A VARIETY OF SYSTEMS. BESIDES ITS STANDARD Poured IN PLACE SYSTEM, VITRITURF OFFERS 100% RECYCLED SYSTEMS AND 100% ORGANIC SYSTEMS.

THE VITRITURF SYSTEMS ARE DESIGNED TO MEET STRINGENT CRITERIA REQUIRED TO EARN POINTS UNDER 2 OUT OF 6 CATEGORIES OF LEED-NC. BASED ON THIS CRITERIA, VITRITURF SYSTEMS CAN ASSIST ARCHITECTS AND DESIGNERS IN OBTAINING 7 (SEVEN) POINTS TOWARD LEED CERTIFICATION.







**VITRITURF IS THE  
LARGEST MANUFACTURER  
OF POURED IN PLACE  
SAFETY SURFACING.**







# SINGLE SOURCE RESPONSIBILITY

VITRITURF IS THE ONLY PRODUCER OF POURED IN PLACE SURFACING TO OFFER SINGLE SOURCE RESPONSIBILITY.

VITRITURF UTILIZES ITS OWN POLYURETHANE BINDERS, SHREDS ITS OWN RUBBER AND HAS INSTALLATION CREWS TO PROPERLY INSTALL THE SYSTEM.

THIS COMBINED WITH A 30 YEAR HISTORY GIVES ITS CLIENTS THE COMFORT KNOWING THERE IS A "SINGLE SOURCE" ACCOUNTABLE FOR THE SAFETY SURFACING.





## OUR VERSATILITY... SETS US A PART

THE VITRITURF MULTIPURPOSE SYSTEM IS THE WEARING COURSE OF THE VITRITURF PLAYGROUND SYSTEM. IT IS TYPICALLY UTILIZED WHENEVER A SHOCK ATTENUATION IS NOT REQUIRED. THE VITRITURF MULTIPURPOSE SYSTEM IS INSTALLED AT A MINIMUM THICKNESS OF 3/8". VITRITURF CAN BE UTILIZED FOR SWIMMING POOL, GYMNASIUMS, FITNESS CENTERS, TENNIS COURTS, JOGGING PATHS, BIKE PATHS AND PLAY AREAS. VITRITURF IS MIXED AND APPLIED ON SITE TO CREATE A SEAMLESS, POROUS, DECORATIVE AND DURABLE SURFACING SYSTEM.



**WHAT'S A LITTLE WATER...**





# COLORS

OUR PALLET IS AT YOUR FINGERTIPS.



RED



BLACK



GREEN



ORANGE



BLUE



EGGSHELL



GOLD



TEAL



GRAY



LIGHT BLUE



PURPLE



BROWN



BRITE GREEN



BEIGE



YELLOW



MIXED

THE COLOR REPRESENTATIONS PRINTED IN THIS BROCHURE MAY VARY FROM THE ACTUAL COLORS.

CONSIDER THE BINDER WHEN CHOOSING COLORS. AN AROMATIC BINDER WILL AMBER THE COLOR. AN ALIPHATIC BINDER WILL ALLOW THE CHOSEN COLOR TO REMAIN STABLE.

# MEMBERSHIPS



[WWW.VITRITURF.COM](http://WWW.VITRITURF.COM)



# TESTING

THE VITRITURF SYSTEM HAS BEEN TESTED FOR SHOCK ATTENUATION, SKID RESISTANCE, FLAMMABILITY, ACCELERATED WEATHERING, COEFFICIENT OF FRICTION, ELONGATION, TENSILE STRENGTH AND WATER PERMEABILITY. PLEASE CONTACT VITRITURF FOR COPIES OF THESE TEST RESULTS.

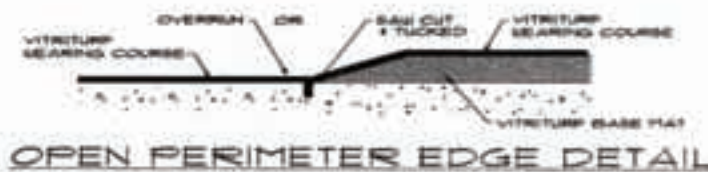
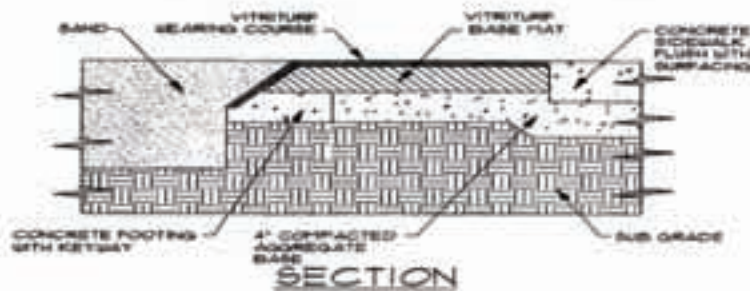
## THICKNESS REQUIREMENTS BASED ON ASTM-1299

3' FOOT DROP-1.5"	7' FOOT DROP-3"
4' FOOT DROP-1.75"	8' FOOT DROP-3.5"
5' FOOT DROP-2"	9' FOOT DROP-4"
6' FOOT DROP-2.5"	10' FOOT DROP-4.5"

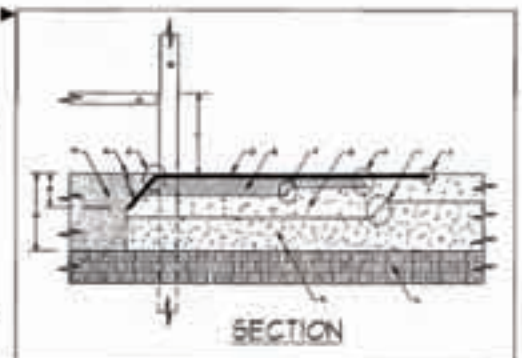
## SUMMARY OF TESTING

FLAMMABILITY-PASSES-ASTM-D-2859, UL-94 AND BS-5696  
 SKID RESISTANCE-ASTM-E-303  
 COEFFICIENT OF FRICTION-ASTM-2047-96  
 TENSILE STRENGTH OF BINDER-ASTM-412-1600 PSI  
 ACCELERATED WEATHERING-ASTM-G-53-5000 HOURS

# DETAILS, DETAILS, DETAILS...



- A. Trenches and 1/2" x 1/2" gaps from joints.
- B. Post-tensioned concrete under slab.
- C. Distance between center and VITRITURF surface shall be 1/2" - 1/4".
- D. Sealing Course of VITRITURF 1/4" thickness between.
- E. VITRITURF base mat.
- F. Typical transition between two types of surface mat.
- G. Base material per VITRITURF specifications for joints.
- H. Typical transition from base mat to searing course.
- I. Transition from material to support to meet minimum depth.
- J. Typical transition between VITRITURF and base material 1/2".
- K. Surface, compacted aggregate, shall comply with the specifications for the base material.
- L. Saw joints, generally 1/2" below finish grade.
- M. Post-tensioned, or other rebar, surface.
- N. Edge of base mat shall extend distance listed.
- O. VITRITURF should extend over 1/2" from VITRITURF at rebar ends.
- P. Width dimension of base mat shall be 4".
- Q. Distance from base mat, maximum width, 1/2" typical.



# SPECIFICATIONS

POURED IN PLACE  
SAFETY SURFACING

## VITRITURF PLAYGROUND SYSTEMS

### PART I -- GENERAL

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

1.01 DESCRIPTION: Provide all labor, materials and equipment necessary to install the VITRITURF 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 Playground 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 application manual for specific instructions on substrate.

3. Acceptable Substrates for the VITRITURF System include asphalt, concrete 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 Primer: A single component moisture cured polyurethane primer.

B. VITRITURF 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. VITRITURF EPDM Rubber: A man-made rubber containing minimum of 30% EPDM and having a density of 1.5-0.05.

1. Is available in assorted colors and available in three sizes: 1-3mm, 0.5-1.5mm and 0.40-08mm (dust)

E. VITRITURF Line Markers: A two component polyurethane utilized to stripe lines or demarcate specific areas.

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 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 Primer Apply primer with a short nap roller at a rate of 300 sq. ft. per gallon.

##### 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. VITRITURF Primer

Apply VITRITURF Primer at the rate of 300 so. ft. per gallon.

##### 4. VITRITURF Wearing Course

a. Mix EPDM to VITRITURF Binder in a ratio of 82/18

b. Apply with a steel trowel

1. For compacting: Lubricate trowel with diesel fuel or soapy water.

2. For finishing: Spray a light mist of water on surface and trowel smooth. Apply at a minimum of 3/8".

# **SPECIFICATIONS** CUSHIONED SEAMLESS FLOOR SYSTEM

## **MULTIPURPOSE SYSTEMS**

### **PART I -- GENERAL**

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

**1.01 DESCRIPTION:** Provide all labor, materials and equipment necessary to install the VITRITURF 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 Multipurpose System is utilized wherever an impact, absorbing cushioned surface is required. Multipurpose areas should meet criteria set by the CPSC.

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

a. Check application manual for specific instructions on substrate.

3. Acceptable Substrates for the VITRITURF System include asphalt, concrete 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 2' (610mm) x 4' 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.

#### **1.05 JOB CONDITIONS:**

A. Ambient air temperature shall 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. Adjacent materials and 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 Primer: A single component moisture cured polyurethane primer.

B. VITRITURF 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 EPDM Rubber: A man-made rubber containing minimum of 30% EPDM and having a density of 1.5-0.05.

1. Is available in assorted colors.

2. Is available in three sizes: 1-3mm, 0.5-1.5mm and 0.40-08mm (dust)

D. The VITRITURF Multipurpose System shall have been tested for non slip characteristics under ASTM-E303, tested for ease of ignition under BS-5696 and ASTM-D-2859, and tested for fire resistance under UL94.

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

### **PART III-- EXECUTION**

#### **3.01 INSPECTION:**

A. Prior to application of VITRITURF 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 Multipurpose System**

1. VITRITURF Primer Apply primer with a short nap roller at a rate of 300 sq. ft. per gallon.

##### **2. VITRITURF Wearing Course**

a. Mix EPDM to VITRITURF Binder in a ratio of 82/18 and apply with a steel trowel.

1. For compacting: Lubricate trowel with diesel fuel or soapy water. For finishing: Spray a light mist of water on surface and trowel smooth. Apply at a minimum of 3/8".

**SINGLE SOURCE  
RESPONSIBILITY**

**FACTORY INSTALLERS**

**CREWS STRATEGICALLY  
LOCATED THROUGHOUT  
UNITED STATES**

**NATIONAL NETWORK  
OF REPRESENTATIVES**



**VITRITURF**

**[WWW.VITRITURF.COM](http://WWW.VITRITURF.COM)**

**PROVIDING POURED IN PLACE  
SURFACING SINCE 1982**

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