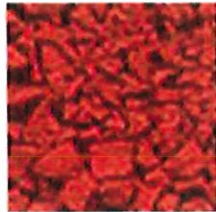
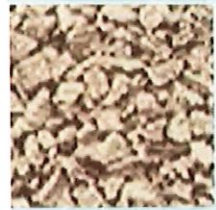


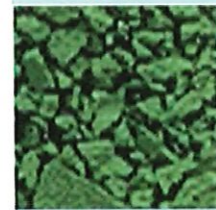
Flexiturf Poured in Place Color Chart  
Available colors shown below. Color to be mixed 50% with black granules.



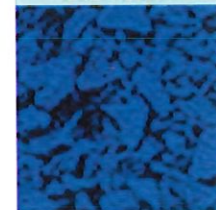
**Red**



**Tan**



**Green**



**Blue**



**Brown**



# Pour-In-Place Safety Surface

FlexiTURF, LLC. All rights reserved. All information contained within subject to change without notice.

## General Specifications: FlexiTURF Safety Surfacing System

### Description

Provide all materials, labor, and equipment to install FlexiTURF poured-in-place Safety Surfacing System.

### I. Composition

FlexiTURF Safety Surfacing System consists of a two process that result in two layers. Unless otherwise specified by the contractor. Examples include but not limit installation of Surfacing on: pool decks, house decks, walkways, gyms and sport courts. In such cases only step (B) applies.

- A. Base made of 100% recycled styrene butadiene rubber (SBR) mixed with Polyurethane.
- B. Top surface made of ethylene propylene diene monomer (EPDM) or Thermal Plastic Vulcanized (TVP) granules mixed with Polyurethane.

### II. Materials

- A. **FlexiTURF Primer:** Moisture cured polyurethane primer.
- B. **FlexiTURF Binder:** An elastic polyurethane polymer, MDI based, low odor. Binder shall contain no TDI monomers. Binder is available in aromatic or aliphatic.
- C. **FlexiTURF recycled SBR**
  - 1. Shall be cryogenically processed
  - 2. Shredded granules shall be 1-3mm or 3/8 in size and contain less than 4% dust.
  - 3. Shall be packed in approved bags to protect SBR from moisture.
  - 4. Base thickness: 1-4 inches depending on playground equipment fall chart approval.
  - 5. Using hand trowels, install the base mat at a consistent density of 29 pounds, 1 ounce per cubic foot (466 kg/m<sup>3</sup>) to the specified thickness.
- D. **FlexiTURF EPDM Rubber**
  - 1. Density of 1 to 3mm
  - 2. Colors: red, blue, yellow, teal, green, black, grey, purple, eggshell, orange, beige, light blue, brown, light green. (More colors may be available upon request)

3. Surfacing available in solid or any mixture of the above colors.
4. Thickness is nominal 1/2 or 2.2 lbs. per square foot

### **III. Quality Assurance**

#### **A. Qualifications**

1. Only FlexiTURF trained and approved installers shall be allowed to work on site.
2. All components used in the installation of FlexiTURF Safety Surfacing System shall be obtained from FlexiTURF and/or its licensed distributors. No substitutions or additions shall be made without written permission from FlexiTURF.
3. Acceptable substrates for FlexiTURF Safety Surfacing System include, asphalt, concrete, and compacted stone. All other substrates shall need to be approved by FlexiTURF.
4. Systems to be considered equal to those specified here shall be approved by the Architect, in writing.

#### **B. Submittals:** The following shall be submitted upon request.

1. Manufacturer's descriptive data and installation instructions
2. Manufacturer's details showing depths of surface and sub-base materials, anchoring systems (if required) and edge details shall be supplied upon request.
3. Statement signed by an official authorized to certify on behalf of the manufacturer of the synthetic safety surfacing attesting that the surfacing meets the requirements of ASTM F 1292 for a head-first fall from the highest accessible portion of specified playground equipment. The surface shall yield both a peak deceleration of no more than 200 g's (GMAX) and a Head Injury Criteria (HIC) value of no more than 1000 for a head-first fall from the highest accessible portion of play equipment being installed as shown on drawings shall be supplied upon request.
4. Statement signed by the Manufacturer of the synthetic safety surfacing that all materials under this section shall be installed by the Manufacturer or its Certified Installers and that playground surfacing installation shall not be performed by anyone other than the Manufacturer or its Certified Installers shall be supplied upon request.
5. A certificate of Insurance shall be provided upon request by Manufacturers or its certified installers of synthetic safety surfacing for use as playground safety surfacing, covering both general and product liability insurance.
6. Upon request, Manufacturer shall supply a sample of safety surface proposed for project. Size and depth of sample will be agreed upon prior to submittal.

### **IV. Technical Information**

#### **Applicable standards**

1. Shock attenuation under ASTM-F-1292- GMAX less than 200
2. Head injury criteria- less than 1000
3. Non-slip characteristics under ASTM-E-303
4. Flammability under ASTM-D-2859
5. Tensile strength ASTM D412 – 60psi
6. Tear Resistance ASTM D624 – 140%

### **Chemical**

1. SBR Base: 86% SBR Buffings, 14% Polyurethane Binder ( by weight)
2. EPDM Top Coat: 79% EPDM granules, 21% Polyurethane Binder (by weight).  
\*binder shall not be less than 20%

### **B. Delivery storage and Handling**

1. Deliver all materials in original unopened packages with proper labeling.
2. Store all materials in an appropriate location. Protecting it from weather and at temperatures not less than 40F(4C).

### **C. Job Conditions**

1. Air temperatures shall be 40F(4C) or greater at and during the installation of the FlexiTURF system.
2. Adjacent materials and the FlexiTURF system shall be protected during the installation and throughout the curing process.

## **V. Site Preparation**

Poured in Place system shall be applied over a subsurface of concrete, asphalt or crushed stone.

1. If installed over concrete or asphalt make sure the system has had proper curing time and is clean prior to installation of the poured in place.
2. If installed on crushed stone make sure it has been compacted to 95% or greater at a minimum depth of 4".
3. Positive drainage is required. Proper drainage is important so that standing water or run off does not deteriorate the subsurface beneath the Pour-N-Place safety surface.

**Track System option:** If the area of the desired installation is in solid level ground and no grass or weeds are present, a track system can be installed for the site preparation. We would install a wire mesh system in the desired area and then we would install our (SBR) Base and top EPDM material. We must inspect the site to determine if the track system installation possible.

## **VI. Installation**

**A. Inspection:** Prior to installation of the FlexiTURF system, all substrates shall be examined for compliance with contract documents and FlexiTURF specification. The contractor and Architect shall then be notified of all discrepancies. Work shall be performed after all conditions are met.

**B. FlexiTURF Primer:** apply primer with a short nap roller. Apply at a constant flow rate and do not over saturate. Prime all areas where FlexiTURF System will be applied. Prime as close as possible the perimeter of any vertical equipment support legs , curbs or edging. Do not use primer on compacted stone.

### **C. FlexiTURF Base**

1. Apply the SBR/binder mix to the to the primed surface, according to desired thickness using a screen bar.
2. Using a steel pool trowel spread the mixed SBR/binder . Apply downward pressure so that the mixture compacts tightly. Throughout this process continuously lubricate the trowel with either Kerosene, diesel, or soapy water.
3. Check surface to see if it is level.
4. Allow to dry for a minimum of 24hrs or until no indentions can be made to surface.
5. The SBR shall be installed up to 2,000 square feet per day. \*Special arrangements can be made to install greater amount. This shall be done only with proper notification, in order to schedule additional crew members.

### **D. FlexiTURF Top Coat**

1. Apply the EPDM or TPV and binder mix to the to the primed surface, according to desired thickness using a screen bar.
2. Using a steel pool trowel spread the mixed EPDM/binder . Apply downward pressure so that the mixture compacts tightly. Throughout this process continuously lubricate the trowel with either Kerosene, diesel, or soapy water.
3. Check surface to see if it level.
4. Allow top coat to cure for a minimum of 48hrs. Prior to use check to verity that surface is completely dry. Check by stepping on edge, if no foot marks are made continue to walk throughout the area to verify it has completely cured.
5. The Top coat shall be installed up to 2,000 square feet per day. \*Special arrangements can be made to install greater amount. This shall be done only with proper notification, in order to schedule additional crew members.
6. Thickness of top coat is to de installed at a minimum of ½ inch

## **VII. Materials**

- A. FlexiTURF Materials can be obtained by contacting FlexiTURF at 516.233.7023.
- B. Manufacturers: Rosehill Polymers, OTS Manufacturing and Supply inc., American Recycling, and Fairmont Polymers.

## **VIII. Warranty**

Our standard warranty is for 5 years from the time of completing the project. 2 years on jobs in water applications. Warranty will take effect on completion of the product. Warranty covers malfunction of material due to natural usage.

\*A signed and detailed warranty description will be issued upon contract decision.

**Protection**

It is the responsibility of the customer to provide security to protect the surface throughout the drying process.

**Cleaning and Maintenance**

The FlexiTURF Surface system, require periodic cleaning like all flooring systems. The FlexiTURF system is Self-sufficient and only requires cleaning when outside contaminants such as sand, dirt, and sometimes dissolved salts in hard water cause a whitish film to develop on the surface. For sand or dirt just wash with water and scrub softly where needed. For the whitish film use Soft Scrub with bleach to clean the surface. Initially dilute Soft Scrub with water on a 1:2 ratio. Apply and scrub the surface with a bristle brush. Rinse well with water. If problem remains repeat and use 1:1 ratio.



FlexiTURF LLC, All Rights Reserved.

All information subject to change without notice

[www.flexiturf.com](http://www.flexiturf.com)

[Kenneth@flexiturf.com](mailto:Kenneth@flexiturf.com)

516.233.7023

20415 Cliff Park Lane.

San Antonio, Texas 78258



Client: FlexiTurf

TUV Report No. Q11200918-1

Manufacturer: FlexiTurf

Test Date: 1/27/12 and 1/30/12

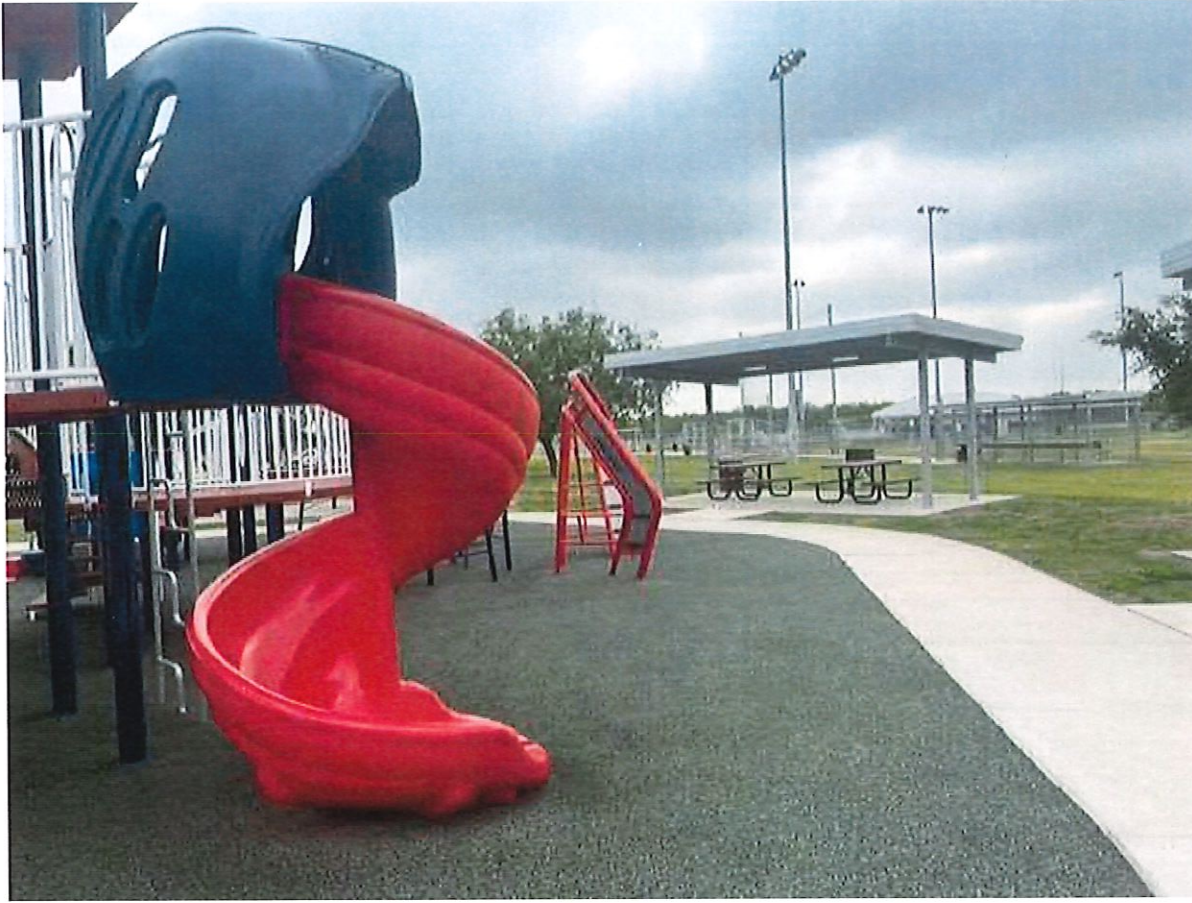
Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	4	135	664	16.1	117	519	16.0	113	501	16.0
2	4	138	690	16.1	120	544	16.1	117	532	16.1
3	4	142	711	16.2	121	543	16.2	119	536	16.1
Average		140	700.5		120.5	543.5		118	535	
Measured Surface Temperature		(-6°C)	Max. Change from reference + 5°C,(9°F)		24°C	Max. Change from reference 3°C,(5.4°F) ±		49°C	Max. Change from reference -3°C,(-5.4°F)	
Sample Condition:		DRY			DRY			DRY		

Drop	One foot over (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C,(9°F)		°C	Max. Change from reference 3°C,(5.4°F) ±		°C	Max. Change from reference -3°C,(-5.4°F)	
Sample Condition:										

Drop	One foot under (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C,(9°F)		°C	Max. Change from reference 3°C,(5.4°F) ±		°C	Max. Change from reference 3°C,(-5.4°F)	
Sample Condition:										



America





2915 SQ.FT.  
209' LINEAL

785 SQ.FT.

60'

49'



**PARK PLACE**  
RECREATION DESIGNS

Linn S. Manuel Veterans Park  
Hidalgo County

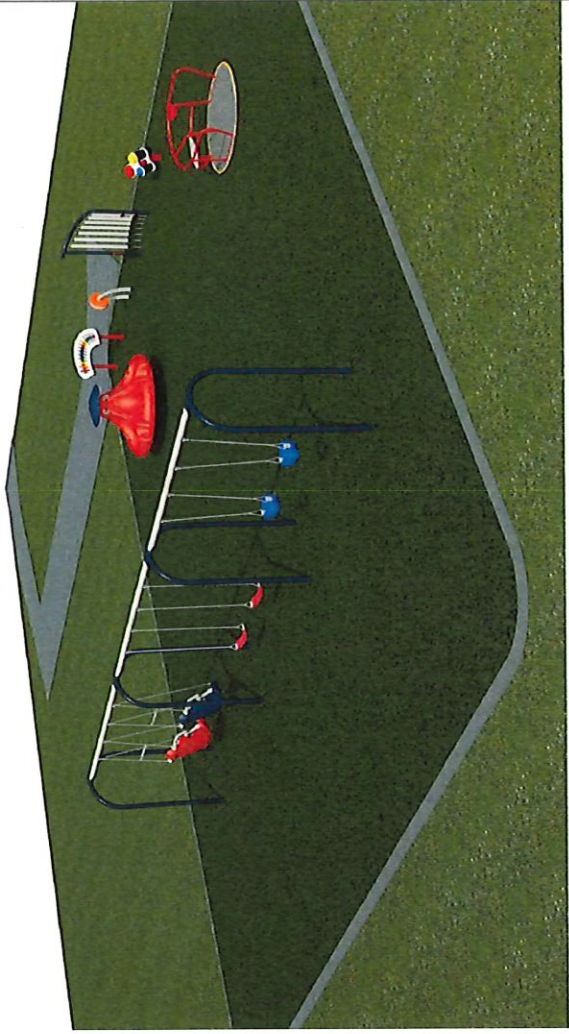
SCALE: 1/16"=1'-0"  
REVISION No. 01



NORTH

DATE:  
05/16/23

Linn San  
Manuel  
Veterans Park  
Hidalgo County,  
Texas



Date:  
11-17-23

Notes:



Miracle  
In Texas  
Represented by:



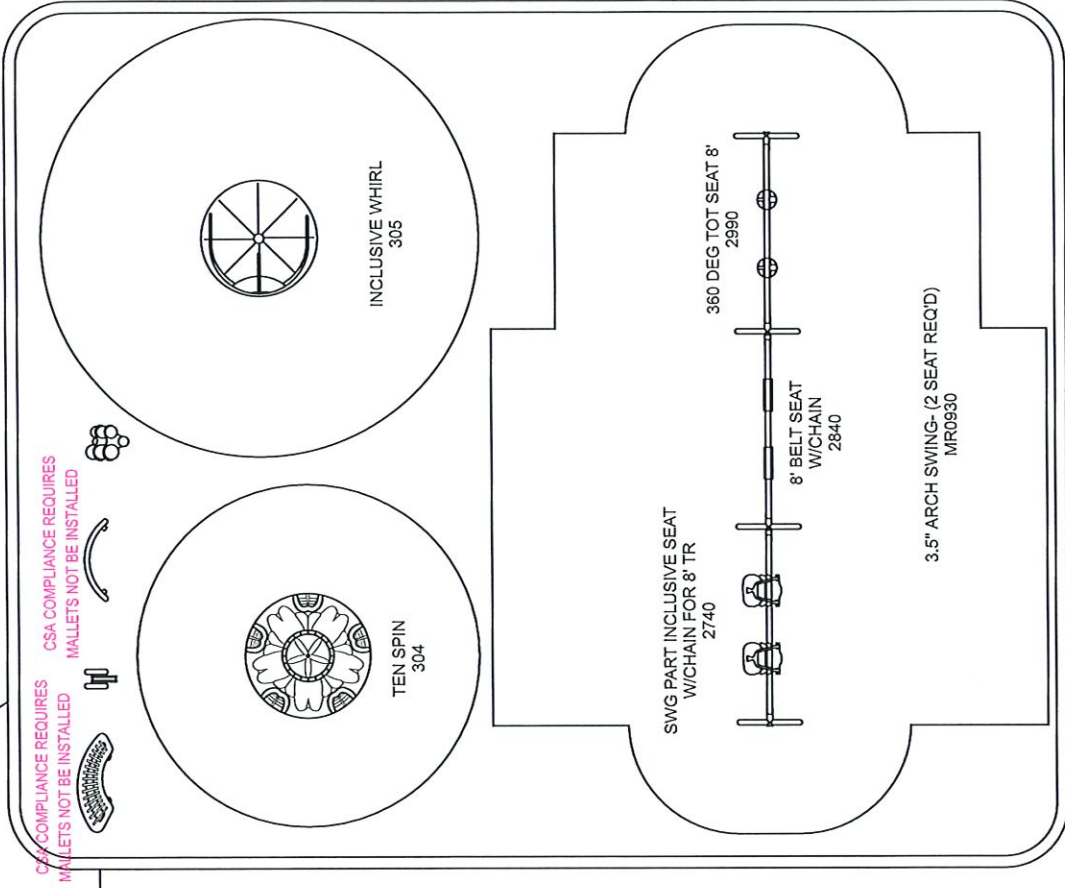
**PARK PLACE**  
RECREATION DESIGNS

# Linn San Manuel Veterans Park Hidalgo, TX

Child Capacity: 32

FOR KIDS AGES  
**2-12**  
YEARS

AGE GROUP: 2-12  
ELEVATED PLAY ACTIVITIES - TOTAL: 0  
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 0 REQ'D 0  
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 0 REQ'D 0  
GROUND LEVEL ACTIVITY TYPE: 3 REQ'D 0  
GROUND LEVEL QUANTITY: 12 REQ'D 0



CSA COMPLIANCE REQUIRES  
MALLETS NOT BE INSTALLED



CSA COMPLIANCE REQUIRES  
MALLETS NOT BE INSTALLED



- CONCERTO VIBES  
4502
- CONCERTO TALL CHIMES  
4501
- CONCERTO SPIN CABASAS MEDIUM  
4504
- CONCERTO 3-CONGAS  
4507



THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.

AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS

To promote safe and proper equipment use by children, Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each play system's main entry point(s) to inform parents and supervisors of the age appropriateness of the play system and general rules for safe play.

R0009_45062646694	
<input checked="" type="checkbox"/>	COMPLIES TO ASTM/CPSC
<input checked="" type="checkbox"/>	COMPLIES TO ADA
Park Place Recreation Designs, Inc. PHONE NO: (210) 821-5878 FAX NO: (210) 832-0115 P.O. Box 18186 San Antonio, TX GROUND SPACE: 49'-6" x 44'-6" PROTECTIVE AREA: 47'-0" x 58'-0" DRAWN BY: V. DAVILA DATE: 5/16/2023	

Drawing Name: Linn San Manuel VP (11.17.23)

Project Number: R0009\_45062646694

Generated by PlayCreator - PartsList

This price list is provided as a design aid only.  
Actual pricing to customer and the accuracy of that  
pricing is the sole responsibility of the Sales Representative.

Model	Description	Qty	Unit Wt	Total \$
2740	SWG PART INCLUSIVE SEAT W/CHAIN FOR 8' TR	2	135	\$2,926.00
2840	8' BELT SEAT W/CHAIN	2	10	\$304.00
2990	360 DEG TOT SEAT 8'	2	15	\$446.00
MR0930	3.5" ARCH SWING- (2 SEAT REQ'D)	1	286	\$2,532.00
MR0932	3.5" ARCH SWING- ADD-A-BAY (2 SEAT REQ'D)	2	179	\$3,038.00
Totals			964.00	\$9,246.00

304	TEN SPIN	1	1000	\$4,288.00
307	INCLUSIVE WHIRL (2023)	1	1000	\$15,090.00
4501	CONCERTO TALL CHIMES	1	130	\$5,661.00
4502	CONCERTO VIBES	1	135	\$5,646.00
4504	CONCERTO SPIN CABASAS MEDIUM	1	70	\$1,255.00
4507	CONCERTO 3-CONGAS	1	60	\$2,760.00
Totals			2,395.00	\$34,700.00