

# No Fault Safety Surface & SAF DEK for Open Play Areas

## Product Specification

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### POURED-IN-PLACE EPDM RUBBER SURFACING FOR MULTI-PURPOSE (non-impact attenuating) RECREATIONAL AREAS

#### PART 1 – GENERAL

##### 1.01 WORK INCLUDED

This work includes furnishing and installing the No Fault Safety Surface. The surfacing Manufacturer/installer shall be responsible for all labor, materials, tools, and equipment to perform all work and services for the installation of the surface.

##### 1.02 DESCRIPTION OF SYSTEM & GENERAL CONDITIONS

No Fault Safety Surface shall be poured-in-place and trowelled to provide for a resilient, seamless rubber surface installed over the specified rigid base. No Fault Safety Surface is comprised of an EPDM colored cap, mixed with a non-flammable, non-shrinking, one part moisture cured polyurethane adhesive as recommended by the Manufacturer and capable of bonding to concrete or asphalt. No Fault Safety Surface shall be stable and slip resistant to comply with, meet or exceed all requirements set forth in the Americans with Disabilities Act (ADA) and the American Standard Testing Methods (ASTM and Consumer Products Safety Commission (CPSC) for manufactured Safety Surfaces as detailed below.

##### 1.03 QUALITY ASSURANCE

###### A. Applicable Standards

1. Coefficient of Friction - ASTM D2047
2. Surface Frictional Properties & Skid Resistance – ASTM E303
3. Permeability – ASTM D2047
4. Flammability of Finished Floor Cover - ASTM D2859
5. Accessibility of Surface Systems – ASTM F1951
6. Tear Strength – ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic
7. Tensile Strength – ASTM D412 Standard Test Methods for Vulcanized Rubber Elastomers and Thermoplastic Elastomers: Tensile Strength must be equal to or greater than 80 Psi.
8. Solar Reflective Index (SRI) – ASTM C-1959 and E-903
9. IPEMA Certification Required

###### B. Installer Qualifications

1. All materials under this section shall be installed by the Manufacturer or its Certified Installers. The playground surfacing installation shall not be performed by anyone other than the product Manufacturer or its Certified Installers.
2. The installation crew will include at least one member that has completed the OSHA 10 Hour Training course and received certification

###### C. Contractor Pre-Qualifications

1. All bidders must have a current Louisiana Contractor's License at or before the time of bid opening date.
2. A list of twenty five (25) surfacing projects completed with a similar product. List shall include names of project representatives and respective telephone numbers. At least five (5) of these projects must be at least five (5) years old. This list shall also contain projects which require the same level of difficulty, size of project, type of project, e.g. color transitions and special graphics.
3. All bidders must also submit Material Safety Data sheets (MSDS) and Product Data Sheets on all materials.
4. Insurance Requirements - All bidders must carry minimum insurance of:
  - a) \$1,000,000 General Liability Per Occurrence
  - b) \$2,000,000 General Aggregate
  - c) \$2,000,000 Products Completed Operations
  - d) \$5,000,000 Excess Liability
  - e) \$1,000,000 Workers Comp. & Employers Liability
  - f) \$1,000,000 Automobile Liability (any Auto)

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### 1.04 SUBMITTALS

- A. One original hard copy of the submittal package will be supplied with additional copies on individual CD's. Upon request only hard copies shall be supplied.
- B. Manufacturer's descriptive data and installation instructions.
- C. Manufacturer's details showing depths of wear surface and sub-base materials, anchoring systems and edge details.
- D. A list of all materials and components to be installed, including Manufacturer's name, storage requirements, and precautions, and shall state chemical composition and test results to which material has been subjected in compliance with these specifications.
- E. Test results to substantiate that the product meets or exceeds all ASTM & ADA requirements for each standard listed in Section 1.03 Quality Assurance. Test must be performed and certified by an independent laboratory.
- F. Copy of IPEMA Certification.
- G. Documentation of Contractor Pre-Qualification as stated in Section 1.03 Quality Assurance.
- H. Documentation of Insurance Requirements as stated in Section 1.03 Quality Assurance.
- I. Statement signed by the Manufacturer of the synthetic safety surfacing attesting that all materials under this section shall be installed by the Manufacturer or its Certified Installers.
- J. A listing of at least twenty five (25) installations where products similar to those proposed for use have been installed and have been in successful service for a minimum period of three (3) years. This list shall include Owner or purchaser, address of installation, date of installation, contact person, and phone number.
- K. Upon request, a sample specimen of safety surface proposed for this project.
- L. Upon request, a list of all organizations and affiliations of the company offering the product(s).

### 1.05 DELIVERY, STORAGE and HANDLING:

Materials and equipment shall be delivered and/or stored in accordance with the Manufacturer's recommendations.

### 1.06 PROJECT SITE CONDITIONS:

- A. Synthetic safety surfacing shall be installed on a dry subsurface, with no prospect of rain within the initial drying period, at temperatures recommended by the Manufacturer.
- B. Installation in weather condition of extreme heat, temperatures less than 40 degrees (F), and/or high humidity may impact cure time, and/or the structural integrity of the final product. Immediate surroundings of the site shall be reasonably free of dust conditions and poor particulate air quality will impact the final surface look.
- C. The Manufacturer's installation manager shall reserve the right to control the project schedule installation based on such factor without penalty to No Fault Sport Group, LLC.
- D. Safety surfacing shall be installed after the playground equipment is installed unless otherwise noted.
- E. Surface installation shall be coordinated by the project manager or designated individual of playground equipment and sub-base installation, with No Fault Sport Group's local production manager and in accordance with No Fault's sub-base requirements.

### 1.07 WARRANTY:

Surfacing shall maintain required impact attenuation characteristics for a period of three (3) years) and guaranteed against defects in workmanship and material for a period of no less than five (5) years or as specified and agreed upon per contract.

## PART 2 – PRODUCTS

Product shall be **No Fault Safety Surface** as manufactured and sold by No Fault Sport Group, LLC. No Fault Safety Surface shall consist of synthetic poured-in-place safety surfacing meeting the requirements of this specification and comprised of EPDM and polyurethane binder. It shall be manufactured and installed by No Fault Sport Group, LLC (866-637-7678 [www.nofault.com](http://www.nofault.com)) and its certified installation crews.

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**NOTE** – Other products will be allowed only if prior approved as per Section 2.02 Product Substitutions & Approved Equals

### 2.01 MATERIALS

#### A. Polyurethane Binder

1. Polyurethane Binder for safety surfacing shall be specifically designed for use with rubber granule material for outdoor installations.
2. No toluene diphenyl isocyanate (TDI) shall be used.
3. No filler materials shall be used in urethane such as plasticizers and the catalyzing agent shall contain no heavy metals.
4. Weight of polyurethane shall be no less than 8.5 lbs/gal (1.02 Kg/1) and no more than 9.5 lbs/gal (1.14 Kg/1)
5. COLOR TINTED BINDER WILL NOT BE ALLOWED.
6. Aromatic or Aliphatic Polyurethane Binder may be used.

#### B. EPDM (Wear Surface)

1. EPDM particles shall meet requirements of ASTM D 412 and CSA Z614-98 for tensile strength and elongation; and ASTM D 2240 (Shore A) hardness of 55-65, not less than 26 percent rubber hydrocarbons.
2. EPDM shall be peroxide cured with an EPDM content of 26% and shall include a processing aid to prevent hardness with 26% poly content to maintain dynamic testing characteristics, weatherization and UV stability.
3. Size of rubber particles shall be not less than 1.0 mm, or greater than 3.0 mm across with a minimum EPDM content of 25% by weight and certified letter from Manufacturer stating this content. All rubber shall remain consistent in gradation and size.
4. STRAND, SHAVED, CHIPPED OR SHREDDED RUBBER IS NOT ACCEPTABLE IN THE POURED CAP.

### 2.02 PRODUCT SUBSTITUTIONS & APPROVED EQUALS

- A. All product substitutions must be submitted for preapproval at least fourteen (14) days prior to bid opening date. A complete submittal package, as outlined in Section 1.03 Submittals, must be provided before a substitute product will be considered for preapproval. If the product submitted for preapproval cannot meet all requirements of the submittal package, it will not be considered.
- B. Once all products submitted for substitution have been reviewed, a list of the approved substitutes will be circulated and made available to bidders.

## PART 3 – EXECUTION

### 3.01 SUB-BASE REQUIREMENTS

- A. Owner or Owner's representative shall provide sub-surface in accordance with Manufacturer's recommendation for the project location and application.
- B. The base shall be concrete or asphalt installed in accordance with Manufacturer's written specifications.
- C. The base shall have the specific minimum slope (2%) and shall vary no more than 1/8" when measured in any direction with a 10' foot straight edge. Verify that sub-surfacing drainage, if required, has been installed to provide positive drainage.
- D. Tolerance of concrete or bituminous subsurface shall be within 1/8 inch (3.0 mm) in 10 feet (3050 mm). Tolerance of aggregate subsurface shall be within 3/8 inch (10mm) in 10 ft (3050 mm).
- E. Asphalt base shall be allowed to cure a minimum of fourteen (14) days and new concrete shall be allowed to cure a minimum of seven (7) days prior to commencement of surfacing.
- F. All sub-bases shall be approved by Owner or Owner's Representative prior to installation of the safety surface.
- G. Alternate sub-base material must have prior approval from Manufacturer.

### 3.02 PREPARATION

- A. Scheduling – No Fault Safety Surface shall be installed after other sub-contractors are complete; the area is free from pedestrian traffic, and under the conditions as outlined in Section 1.06 Project Site Conditions.
- B. Cleaning - The entire subsurface shall be clean, dry and free from any foreign and loose material.

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### 3.03 INSTALLATION

#### A. EPDM Wear Course Layer

1. Polyurethane binder and EPDM will be mixed on site in a rotating tumbler to ensure components are thoroughly mixed and are in accordance with manufactures recommendations.
2. The polyurethane binder shall be not less than 20 percent (20%) of total weight of rubber used in the wear surface, and shall provide 100 percent (100%) coating of the particles.
3. The EPDM and polyurethane binder mixture will then be poured-in-place by means of screeding, and hand-trowelled to maintain a seamless application.
4. Installation method shall use a measured screed rod 1/16" thicker than the required depth.
5. The cap will have a minimum weight of 2.2 pounds per square foot for 3/8" and 2.9 pounds per square foot for 1/2".
6. Thickness of wear surface shall be a minimum 3/8" or 1/2".
7. The wear layer shall be porous.
8. If graphic designs and color transitions are used, they shall be full wear course depth. Color(s) to be determined by architect.
9. Edges - Surface edges shall be flush with edge of adjacent area or tapered to provide safe transition.
10. Large Areas - All areas in excess of 2,000 sq. ft. or that require adjacent color pours will have a cold joint or seam due to the nature of the installation process. Although seldom visible, large areas or adjacent colors require the No Fault Safety Surface material to be installed on separate days.
11. Color: The wear course shall be a blend of 50% Black and 50% Standard Color (Terra Cotta Red, Tan, Blue or Green) chosen by the architect or Owner during the submittal process, unless otherwise stated on plans.

### 3.04 PROTECTION

- A. The synthetic safety surface shall be allowed to fully cure in accordance with Manufacturer's instructions. The surface shall be protected by the Owner from all traffic during the curing period of 48 to 72 hours after surface installation is complete, or as instructed by the Manufacturer.
- B. Surface installation crew shall be responsible for the protection of No Fault Safety Surface during the installation process. Owner or General Contractor shall be responsible for the protection of the surface during the crew's off hours and during the curing period upon completion of the installation.

### 3.05 CLEAN UP

- A. Manufacturer's installers shall not leave adhesive on adjacent surface or play equipment. Spills of excess adhesive shall be promptly cleaned.
- B. Manufacturer's installers shall properly dispose of all material and packing waste before leaving the job site.
- C. Owner or contractor shall be responsible for supplying a dumpster at job site for all waste associated with installation of the safety surface.

**FOR INDIVIDUAL PROJECT SPECIFICATIONS OR OTHER INFORMATION INCLUDING FALL HEIGHT REQUIREMENTS PLEASE CONTACT**

**NO FAULT SPORT GROUP, LLC**

**866-637-7678 (toll free)**

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