



**Global Surfacing, Inc.**  
**Post Office Box 1429**  
**Woodstock, GA 30188**  
**Tel 1-866-673-5838**  
**Fax 1-866-673-5839**  
**Website [www.globalsurfacing.com](http://www.globalsurfacing.com)**

## **POURED-IN-PLACE**

### **PLAYGROUND SAFETY SURFACING SPECIFICATION**

#### **I. GENERAL**

##### **1.1 DESCRIPTION**

- A. Dual-density, resilient, seamless, poured-in-place, playground safety surfacing.

##### **1.2 RELATED DOCUMENTS**

- A. Maintenance and Cleaning Instructions
- B. Warranty
- C. Aggregate Subsurface Specification
- D. Concrete Subsurface Requirements
- E. Asphalt Subsurface Requirements

##### **1.3 REFERENCES**

- A. ASTM F 1292 - Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- B. US Consumer Product Safety Commission (CPSC) Public Playground Safety Handbook.

##### **1.4 SUBMITTALS**

- A. Product Data: Submit manufacturer's product data and installation instructions.
- B. Samples: Submit manufacturer's samples of poured-in-place playground safety surfacing showing texture, color, and thickness.

- C. Test Reports: Submit certified test reports from qualified independent testing agency indicating results of impact attenuation testing.
- D. Manufacturer's Project References:
  - 1. Submit list of successfully completed projects.
  - 2. Include project name and location, name of owner, and type and quantity of poured-in-place playground safety surfacing furnished.
- E. Installer's Project References:
  - 1. Submit list of successfully completed projects.
  - 2. Include project name and location, name of owner, and type and quantity of poured-in-place playground safety surfacing installed.
- F. Maintenance and Cleaning Instructions: Submit manufacturer's maintenance and cleaning instructions.
- G. Warranty: Submit manufacturer's warranty.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
  - 1. Continuously engaged in manufacturing of poured-in-place playground safety surfacing of similar type to that specified.
  - 2. Furnished a minimum of 10,000 square feet of poured-in-place playground safety surfacing of similar type to that specified within the past 6 months.
- B. Installer's Qualifications:
  - 1. Successful experience in installation of poured-in-place playground safety surfacing of similar type to that specified, with a minimum of 10 projects completed within last 6 months.
  - 2. Employ persons trained for installation of poured-in-place playground safety surfacing of similar type to that specified.
  - 3. Approved by manufacturer.
  - 4. Covered by Workers Compensation, Automotive and General Liability insurance.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in a dry area at a minimum temperature of 40 degrees F.

- C. Handling: Protect materials during handling and installation to prevent damage or contamination.

## 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Material Temperature: Ensure material temperature is a minimum of 40 degrees F at time of installation.
- B. Air Temperature: Ensure air temperature is a minimum of 40 degrees F for a minimum of 24 hours before, during, and a minimum of 72 hours after installation.
- C. Precipitation: Ensure no prospect of precipitation during and a minimum of 72 hours after installation.

## 1.8 LIMITATIONS

- A. The following chemicals may cause damage to the poured-in-place playground safety surfacing and should be avoided: disinfectants, concentrated chlorine bleach, gasoline, diesel fuel, hydraulic and lubricating oils, acids and organic solvents.
- B. Dissolved minerals and other chemicals such as hydrochlorides from water play areas, pool surrounds and similar applications may cause surface discoloration.
- C. An amber shading of the upper wear/cap course may be noticeable when using standard binding agent.
- D. Areas in excess of 1000 square feet or composed of adjacent colors may contain a cold joint or seam due to the nature of the installation process. Large areas or adjacent colors require the material to be installed on separate days.

## 1.9 WARRANTY

- A. A five (5) year warranty from the date of completion of installation shall be provided against defects in materials and workmanship.

## II. PRODUCT

### 2.1 MANUFACTURER

- A. Global Surfacing Inc.  
Post Office Box 1429  
Woodstock, GA 30188  
Tel 1-866-673-5838  
Fax 1-866-673-5839  
Website [www.globalsurfacing.com](http://www.globalsurfacing.com)

### 2.2 POURED-IN-PLACE PLAYGROUND SAFETY SURFACING

- A. Global Surfacing Poured-in-Place Playground Safety Surfacing
1. Description: Dual-density, resilient, seamless, poured-in-place, playground safety surfacing.
  2. Compliance: Meet or exceed CPSC guidelines for impact attenuation.
  3. Material: SBR rubber shreds and EPDM rubber granules mixed with binding agent.
  4. Binding Agent: 100 percent solids, aromatic, MDI polyurethane.
  5. Lower Base/Impact Course: Mixture of black SBR rubber shreds and binding agent.
    - a. Binder to Rubber Ratio: Approximately 16 pounds of binder to 100 pounds of rubber.
    - b. Thickness: Sufficient to meet impact attenuation requirements as determined by designated fall height of playground equipment.
  7. Upper Wear/Cap Course: Mixture of colored and/or black EPDM rubber granules and binding agent.
    - a. Binder to Rubber Ratio: Approximately 22 pounds of binder to 100 pounds of rubber.
    - b. Thickness: 0.5 inch, nominal.
  8. Total Thickness: From 1.5 inches to 5.5 inches as determined by designated fall height of playground equipment.
  9. Colors: Standard color combinations include 50/50 Terra Cotta/Black, 50/50 Beige/Black, 50/50 Green/Black and 50/50 Blue/Black. Custom color combinations, custom solid colors and custom graphics are optional. Standard color combinations were chosen based on popularity, UV stability, and cost.
- B. Test Results:
1. Impact Attenuation, ASTM F 1292:
    - a. Gmax: Less than 200.
    - b. Head Injury Criteria (HIC): Less than 1,000.

### III. EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas to receive poured-in-place playground safety surfacing. Ensure all applicable site work, including subsurface preparation, fencing, playground equipment installation and all other relevant work, has been completed. Notify owner if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

#### 3.2 PREPARATION

- A. Prepare subsurface in accordance with manufacturer's instructions to ensure proper support and drainage for poured-in-place playground safety surfacing. Finished elevations of subsurface shall be as indicated on the Drawings. Finished elevations of adjacent areas/borders/edging shall be as indicated on the Drawings. Subsurface shall be installed in a true, even plane and sloped to drain unless otherwise indicated on the Drawings.
- B. Aggregate Subsurface: Aggregate subsurface shall be as specified in Section 04.
- C. Concrete Subsurface:
  - 1. Concrete subsurface shall be as specified in Section 05.
  - 2. Apply light broom finish.
  - 3. Ensure concrete is sound with no cracks or loose material.
  - 4. Ensure concrete is a minimum of 28 days old.
  - 5. Test concrete for moisture in accordance with manufacturer's instructions to ensure it has sufficiently cured and is dry.
  - 6. Power wash existing concrete in accordance with manufacturer's instructions.
- D. Asphalt Subsurface:
  - 1. Asphalt subsurface shall be as specified in Section 06.
  - 2. Ensure asphalt is sound with no cracks or loose material.
  - 3. Ensure asphalt is a minimum of 28 days old.
  - 4. Test asphalt for moisture in accordance with manufacturer's instructions to ensure it has sufficiently cured and is dry.
  - 5. Power wash existing asphalt in accordance with manufacturer's instructions.
- E. Variations in Elevation: Repair variations in elevation of completed subsurface greater than plus or minus 1/4 inch over 10 feet in any direction.

### 3.3 INSTALLATION

- A. Install poured-in-place playground safety surfacing in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Ensure prepared subsurface is dry, clean and free of any foreign or loose material.
- C. Install edges in accordance with manufacturer's instructions and as indicated on the Drawings.
- D. Install cold seams as indicated on the Drawings.

### 3.4 PROTECTION

- A. Owner shall not allow foot traffic on poured-in-place playground safety surfacing until a minimum of 80 percent cure is obtained. (Estimated time to obtain 80 percent cure will range from 6 to 72 hours depending on temperature and humidity.)
- B. Owner shall protect completed poured-in-place playground safety surfacing from damage during installation and cure time.
- C. Owner shall protect completed poured-in-place playground safety surfacing from damage from subsequent construction activity.

### 3.5 MAINTENANCE AND CLEANING

- A. Owner should maintain and clean poured-in-place playground safety surfacing in accordance with manufacturer's instructions.