



## Manufacturer's Specifications

### Part 1 – GENERAL

#### 1.01 SCOPE:

Provide all materials, labor and equipment necessary to install the DuraBound Surfacing System, a poured-in-place, one-layer safety surface system.

#### 1.02 DESCRIPTION:

DuraBound Surfacing System is a single layer poured-in-place safety surface which complies with CPSC standards, ADA accessibility, ASTM F1292 Impact Attenuation. The surface is comprised of a shredded pigmented post-consumer rubber mixed with a single component polyurethane binder that is troweled in place to produce a smooth, seamless safety surface.

#### 1.03 COMPOSITION:

DuraBound Surfacing System consists of 100% recycled pigmented styrene butadiene rubber (SBR) mixed with a single component polyurethane binder.

#### 1.04 QUALITY ASSURANCE:

##### A. Product:

1. The Applicator/ Installer shall be trained and certified by DuraPlay, Inc.
2. All components of the DuraBound Surfacing System shall be obtained from DuraPlay, Inc. or its authorized distributors. No substitutions or additions of other materials shall be submitted without prior written consent from DuraPlay, Inc.
3. Acceptable substrates for the DuraBound Surfacing System include asphalt, concrete and compacted stone. See construction detail.
4. Other substrates shall be approved by DuraPlay, Inc. prior to application.
5. Systems to be considered equal to those specified herein shall be approved by the Architect, in writing, at least ten working days prior to the project bid date.

##### B. Qualifications:

6. The manufacturer must be in business for at least 5 years.
7. The applicator/installer shall be trained and certified by DuraPlay, Inc. and must have installed a minimum of 10 applications.

##### B. Application:

1. Ambient air temperature shall be 40°F (4°C) or greater and rising at the time of installation of the DuraBound Surfacing System.
2. Adjacent materials and the DuraPlay, Inc. System shall be protected during installation while curing and/or unattended from weather and other damage.
3. Accessibility of Surface System. ASTM F1951: All playground surfacing products must pass testing to ensure wheelchair access.

##### D. Impact Attenuation:

1. Playground shall comply with all performance requirements set forth by CPSC, ASTM F1292 and / or CSA Z614-98.

### 1.05 SUBMITTALS:

- A. Material Product data
- B. DuraBound Color Chart
- C. Sample colors if needed
- D. Warranty
- E. Product Liability Insurance Certificate

### 1.06 DELIVERY & STORAGE:

- A. Deliver all materials in original unopened packages with labels intact
- B. Store all materials protected from weather and at temperatures not less than 32° F (4° C)

### 1.07 JOB CONDITIONS:

- A. Ambient air temperature shall be 40° or greater and rising at the time of installation of the surface and shall remain at 40° F or greater for at least 48 hours after application.
- B. Adjacent materials and the surface shall be protected during installation, while curing and unattended, from weather and other damage, and is the contractor, and/or owner's responsibility.

### 1.08 Alternates and Allowances:

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

## Part 2 - PRODUCTS

### 2.01 MATERIALS:

- A. DuraPlay Primer: (only when concrete is the substrate) A single component moisture curing polyurethane.
- B. DuraPlay Binder: An elastic single component polyurethane pre-polymer, MDI based, low odor, capable of excellent weathering and binding characteristics. Binder shall contain no TDI Monomers (Toluene Diphenyl Isocyanate). Color treated binder will not be allowed.
- C. DuraBound Colored Rubber Mulch: a combination of +4 SBR recycled rubber, colored with a pigmented colorant and coated with a UV sealant. DuraBound Rubber Mulch is clean and free of foreign matter.
  - 1. Thicknesses: 2 inches to 4.75 inches, depending on the critical fall height of playground equipment.
    - a. When applying over a compacted stone surface there is a 2" minimum thickness.
  - 2. Colors: Beige, Red, Brown, Black, Blue, Green & Yellow. Combinations of colors are allowable.

### 2.02 TECHNICAL INFORMATION:

- A. Applicable Standards
  - 1. Shock attenuation under ASTM-F-1292 – GMAX less than 200
  - 2. ADA Accessibility - ASTM 1951
  - 3. Head Injury Criteria – less than 1000
  - 4. Non-slip characteristics under ASTM-E-303
  - 5. Flammability under 8S -5696 and ASTM-D-2859
- B. Physical properties:
  - 1. Tensile Strength (ASTM D412) 60 psi
  - 2. Elongation at break (ASTM D412) 40% minimum
  - 3. Flammability: pass (ASTM D285)
  - 4. Coefficient of friction
    - Wet 0.9 min
    - Dry 0.1 min
  - 5. Water permeability 0.4 gal./89.yd/sec. min.
- C. Chemical properties:
  - 1. 80% EPDM Rubber Granules, 20% Polyurethane Binder

## **2.03 INSTALLATION:**

- A. Inspection: Prior to application of DuraBound Surfacing System, the substrates shall be examined by DuraPlay installation technician for compliance with the contract document of DuraPlay specifications. The general contractor and architect shall be advised of all discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.
- B. DuraPlay Primer:
  - 1. Apply primer by spray or short nap roller at the rate of 300 square feet per gallon. Do not over saturate substrate. Prime area 1 1/2-2 feet around perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or edging that will contact the surfacing system. NOTE: Do not use DuraPlay primer over compacted stone.
- C. DuraBound Surface:
  - 1. Apply mixed binder/SBR at desired thickness using a screed bar that is 1/8" thicker than the finished thickness.
  - 2. Using a steel pool trowel, even binder/SBR mixture. Be sure to continuously lubricate trowel with kerosene, diesel fuel or soapy water. Do not saturate surface with these lubricants.
  - 3. As the mixture is leveled apply a downward pressure onto the surface so that the mixture compacts tightly.
  - 4. Check surface to be level.
  - 5. Allow to cure for 48 hours.

## **2.04 WARRANTY:**

Our standard warranty period is 3 years from the date of completion. See DuraBound Warranty.

## **2.05 PROTECTION:**

It is the responsibility of the customer to provide security to protect the drying surface from footprints and vandalism while surface is curing.

## **2.06 CLEANING AND MAINTENANCE:**

DuraPlay Surfaces are self-sufficient; therefore, excessive cleaning is needed only in some cases. Applying two clear coats of DuraSeal every two years will prolong the life of the DuraBound Surface.

## **2.07 WARNING:**

High surface temperatures may occur due to the absorption of solar energy. To assure child safety and comfort, shade structures are recommended over all poured in place surfacing. All individuals must wear adequate foot protection while on a poured in place surface.

If any questions arise, please do not hesitate to contact DuraPlay, Inc. for technical assistance.

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