



Manufacturers Specifications

PART 1 – GENERAL

1.01 SCOPE

Provide all materials, labor and equipment necessary to install the DuraPlay Surfacing System.

1.02 DESCRIPTION

The DuraPlay Surfacing System is primarily used for playgrounds. It provides overall consistent fall protection and can be easily customized to meet any safety, design and aesthetic requirements. This ADA compliant surfacing creates a resilient, monolithic pad in turn, providing a safe, clean, maintenance-free space for children to play on.

1.03 COMPOSITION

DuraPlay Surfacing System consists of two layers.

- A. Base mat made of 100% recycled styrene butadiene rubber (SBR) mixed with high-grade polyurethane.
- B. Top Surface made of ethylene propylene diene monomer (EPDM) or Thermoplastic Vulcanizate (TPV) mixed with polyurethane.

1.04 QUALITY ASSURANCE

A. Product

1. All components of the DuraPlay Surfacing System shall be obtained from DuraPlay or its authorized distributors. No substitutions or additions of other materials shall be submitted without prior written permission from DuraPlay, Inc.
2. System shall be warranted by manufacturer for any defects in material and workmanship.
3. **No prorated warranties permitted.**

B. Qualification

1. Surface must be IPEMA certified.
2. Test results- see applicable standards section 2.2, A.
3. Manufacturer must be in business at least 5 years.
4. The Applicator/ Installer shall be trained and approved by DuraPlay, Inc. and must have installed a minimum of 10 applications.

C. Applications

1. Acceptable substrates for the DuraPlay Playground System include asphalt, concrete and compacted stone. Other substrates shall be approved by Duraplay, Inc. prior to application.

2. Conditions of all substrates with respect to structural and drainage performance must be evaluated and approved by the applicator prior to applying the DuraPlay Surfacing System. Owner or General Contractor is responsible for drainage.

D. Acceptable Manufacturers

1. DuraPlay, Inc.

- E. Proposed substitutions are required to provide product data demonstrating that they meet or exceed product specifications complying with this section.

1.05 SUBMITTALS

- A. Material product data
- B. DuraPlay Color Chart
- C. Sample colors if needed
- D. Warranty
- E. Product liability Insurance Certificate
- F. IPEMA Certification

1.06 DELIVERY, STORAGE & HANDLING

- A. Deliver all materials in good condition, in original unopened packages with labels intact.
- B. Store all materials protected from weather and at temperature not less than 32° F (0°C) for any 12-hour duration.

1.07 JOB CONDITIONS

- A. Ambient air temperature shall be 45° F (0°C) or greater and rising at the time of installation of the surface and shall remain at 33° F (0°C) or greater for at least 24 hours after application.
- B. Adjacent materials and the surface shall be protected during installation, while curing and unattended, from weather and other damage.

1.08 ALTERNATES AND ALLOWANCES

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 GENERAL

All material components of the DuraPlay Surfacing System shall be obtained from the same manufacturer or its authorized distributors.

2.02 MATERIALS

- A. DuraPlay Primer: A single-component moisture cured polyurethane primer.
- B. DuraPlay Binder: An elastic polyurethane pre-polymer, MDI based, low odor, capable of excellent weathering and binding characteristics. Binder shall contain no TDI Monomers.

C. DuraPlay Black SBR:

1. Shall be recycled SBR Rubber
2. Shall be cryogenically processed
3. Shall be 3/8" shredded mesh or 6/20 mesh and contains less than 4% dust.
4. Shall be packed in suitable bags to protect SBR from moisture
5. Base mat thickness: 1 to 4.75 inches, depending on critical fall height of playground equipment.

D. DuraPlay EPDM Rubber or Thermoplastic Vulcanizate (TPV):

1. A manufactured rubber having a density of 1 to 4mm.
2. Available in standard colors: terra cotta, blue, green, light blue, dark green, light green, tan, black and premium colors: eggshell, teal, aqua, yellow, grey, purple, brown, orange, charcoal, and light grey (colors subject to change).
3. Available in any mixture of above colors.
4. Thickness is nominal 1/2" or 2.44 lb. per square foot.

2.03 TECHNICAL INFORMATION

A. 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. IPEMA Certified
5. Flammability under 8S -5696 and ASTM-D-2859
6. Tensile strength (ASTM D412) - 60 psi
7. Tear resistance (ASTM D624) – 140%

B. Chemical Properties

1. Base mat: 85% SBR Rubber Buffings, 15% Polyurethane Binder
2. Top Surface: 78% EPDM or TPV Rubber Granules, 22% Polyurethane Binder

PART 3 – EXECUTION

3.01 INSPECTIONS

- A. Prior to application of DuraPlay Playground System, the substrates shall be examined by DuraPlay's 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.

3.02 INSTALLATIONS

- A. DuraPlay Primer: Apply primer with a short nap roller at the rate of 300 square feet per gallon. Do not over saturate substrate. Prime area 1.5 - 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.

B. DuraPlay Resilient Base Mat:

1. Apply mixed binder/SBR at desired thickness 1/8" higher than measuring bar.
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 dry for 10 to 12 hours or until no indentations can be made by foot traffic.

C. DuraPlay Top Surface:

1. Apply mixed binder/granule at a nominal 1/2" thickness.
2. Using a steel pool trowel, spread even rubber/granule mixture. Be sure to continuously lubricate trowel with kerosene, diesel fuel or soapy water.
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. Cold joints must be cut and primed prior to installing a different color surface.
6. Allow to cure for a minimum of 24 to 48 hours prior to usage. At the end of the minimum curing period, verify that the top surface is sufficiently dry and firm to allow foot traffic and use without damage to the surface. Do not allow foot traffic or use of the surface until it is sufficiently cured.

D. Edge Details: Available upon request.

3.03 WARRANTY

The standard warranty period is 5 years from the date of project installation completion.

3.04 PROTECTION

It is the responsibility of the customer/owner to provide security to protect the surface from foot traffic or vandalism during the 48 hour cure period.

END OF SECTION

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

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