

DuraPlay, Inc. Manufacturer's Specifications

General Specifications

Product: DuraPlay Surfacing System

DESCRIPTION: Provide all materials, labor and equipment necessary to install the Duraplay Surfacing System, a poured in place safety surface designed for playgrounds and water play areas.

COMPOSITION: Duraplay Surfacing System consists of two layers.

- A. Basemat made of 100% recycled styrene butadiene rubber (SBR) mixed with polyurethane.
- B. Top Surface made of ethylene propylene diene monomer (EPDM) mixed with polyurethane

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: Shall be recycled SBR Rubber
 1. Shall be cryogenically processed
 2. Shall be chopped to 1-3mm or 3/8" shredded granules and contain less than 4% dust.
 3. Shall be packed in suitable bags to protect SBR from moisture,
 4. Basemat thicknesses: 1 to 4 inches, depending on playground equipment. Contact DuraPlay, Inc.
- D. Duraplay EPDM Rubber: A manufactured rubber having a density of 1 to 3mm.
 1. Available in red, beige, eggshell, yellow, grey, blue, green, black, purple, brown, orange, and light blue.
 2. Available in any mixture of above colors.
 3. Thickness is nominal 1/2" or 2.2 lbs per square foot.

QUALITY ASSURANCE:

- A. Qualifications
 1. The Applicator/ Installer shall be trained and approved by Duraplay, Inc.
 2. 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.
 3. Acceptable substrates for the Duraplay Playground System include asphalt, concrete and compacted stone.
 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. Delivery, Storage and Handling:
 1. Deliver all materials in original unopened packages with labels intact.
 2. Store all materials protected from weather and at temperature not less than 40° F (4°C).
- C. Job Conditions:
 1. Ambient air temperature shall be 40°F (4°C) or greater and rising at the time of installation of the Duraplay System and shall remain at 40°F or greater for at least 3 days after application.
 2. Adjacent materials and the Duraplay System shall be protected during installation while curing and/or unattended from weather and other damage.

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. Flammability under 8S -5696 and ASTM-D-2859
 5. Tensile strength (ASTM D412) - 60 psi
 6. Tear resistance (ASTM D624) – 140%
- B. Chemical Properties
1. Basemat: 86% SBR Rubber Buffings, 14% Polyurethane Binder
 2. Top Surface: 79% EPDM Rubber Granules, 21% Polyurethane Binder

INSTALLATION:

- A. Inspection: Prior to application of DuraPlay Playground System, the substrates shall be examined 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. Duraplay Base Mat:
1. Apply mixed binder/SBR at desired thickness using a screed 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 a minimum of 24 hours or until no indentations can be made by foot traffic.
- D. Duraplay Top Surface:
1. Apply mixed binder/granule at desired thickness using a screed bar.
 2. Using a steel pool trowel 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. Allow to cure for a minimum of 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.
- E. Edge Detail: See DuraPlay brochure.

WARRANTY:

Our standard warranty period is 5 years from the date of completion for all 100% color jobs. All Jobs containing black in the top course or jobs in water applications receive a standard 3 year warranty.

PROTECTION:

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

CLEANING AND MAINTENANCE:

DuraPlay Surfaces, like any flooring material, require periodic cleaning. The frequency of cleaning depends on the intensity and type of traffic on the surface. DuraPlay Surfaces are self-sufficient; therefore, excessive cleaning is needed only when outside contaminants are introduced. In some cases, dissolved salts in water ("hard water") or the environment can cause a whitish film to develop on the DuraPlay Surface. If this occurs, immediate cleaning is necessary to enhance the original colors of the surface.

The Cleaning Process:

For "whitish" film or mildew deposits, we recommend using Soft Scrub with Bleach to clean the surface. Initially dilute the Soft Scrub at a proportion of 1 part cleanser to 2 parts water and mix well. Scrub the surface with a stiff-bristled scrub brush. Rinse well with water. If the stains persist, repeat the process above with a 1 to 1 cleanser/water ratio. For excessive residue, use the cleanser without diluting. Another method of cleaning is pressure washing with a light spray nozzle (caution – heavy spray nozzles may damage surface).

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