



## Manufacturer's Specifications

### **PART 1 - GENERAL:**

#### **1.01 SCOPE**

Provide all materials, labor and equipment necessary to install the DuraSplash Water Play Surface.

#### **1.02 DESCRIPTION:**

DuraSplash is a UV and chlorine resistant, porous, non-slip surface designed for use in chlorinated water applications.

#### **1.03 COMPOSITION**

DuraSplash consists of

- A. Colored rubber made of Thermoplastic Vulcanizate (TPV) mixed with
- B. Chlorine-resistant aliphatic binder.

#### **1.04 QUALITY ASSURANCE**

##### A. Qualifications

1. The Applicator/ Installer shall be trained and approved by DuraPlay, Inc.
2. All components of the DuraSplash Water Play Surface 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 DuraSplash include asphalt or heavy broom finished, acid-etched concrete.
4. Other substrates must be approved by DuraPlay, Inc. in writing prior to application.

#### **1.05 SUBMITTALS**

- A. Material product data
- B. DuraPlay Color Chart
- C. Sample colors if needed
- D. Warranty
- E. Product Liability Insurance Certificates

#### **1.06 DELIVERY, STORAGE and HANDLING**

- A. Deliver all materials in original unopened packages with labels intact.
- B. Store all materials protected from weather and at temperature not less than 40° F (4°C).

#### **1.07 JOB CONDITIONS:**

- A. Ambient air temperature shall be 50 degrees or greater and rising at the time of installation of the surface, and shall remain at 40 or greater for at least 72 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:**

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 II - PRODUCTS**

**2.0 GENERAL**

All material components of the DuraSplash Water Play Surface shall be obtained from the same manufacturer or its authorized distributors.

**2.01 MATERIALS:**

- A. DuraPlay Primer: A single-component aliphatic chlorine-resistant, moisture-curing polyurethane primer.
- B. DuraPlay Binder: An elastic aliphatic polyurethane pre-polymer, UV and chlorine resistant, low odor, capable of excellent weathering and binding characteristics.
- C. Duraplay TPV Rubber: A manufactured rubber having a density of 1 to 4mm.
  - 1. Available in standard colors: terra cotta, blue, green, light blue, dark green, light green, tan, eggshell, and Premium colors: teal, aqua, yellow, grey, purple, brown, orange, dark grey, and light grey.
  - 2. Available in any mixture of above colors.
  - 3. Thickness is nominal 1/2" or 2.2 lbs per square foot.

**2.02 TECHNICAL INFORMATION:**

- A. Applicable Standards
  - 1. Non-slip characteristics under ASTM-E-303
  - 2. Flammability under 8S -5696 and ASTM-D-2859
  - 3. Tensile strength (ASTM D412) - 60 psi
  - 4. Tear resistance (ASTM D624) – 140%
- B. Chemical Properties - 79% TPV(color) Rubber Granules, 21% Chlorine Resistant Aliphatic Binder

**2.03 INSTALLATION:**

- A. Inspection: Prior to application of DuraSplash Water Play Surface, 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. Sub -Surface Preparation
  - 1. New or existing Concrete: Must be cured at least 28 days. All concrete must have a heavy broom finish and be acid etched and then rinsed with clean water and allowed to dry.
  - 2. Asphalt must cure for at least 28 days. Scrub with degreaser to remove any surface oils.
  - 3. Drains, ground pop jets, doorways or entryways shall be raised 1/2" and perforated on the sides to allow water to drain under the surface.

4. For flush mounted drains, ground pop jets, doorways and entryways, cut a 3/8 inch x half inch keyway groove into the concrete surrounding the object.

C. Duraplay Primer:

1. Apply primer by spray or short nap roller at the rate of 300 square feet per gallon. Do not oversaturate substrate. Prime entire area to be surfaced and any adjacent vertical barriers such as playground equipment support legs, curbs or edging that will contact the surfacing system.

D. DuraSplash Water Play Surface:

1. Apply mixed binder/granule at 9/16" using a screed bar or guide.
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 72 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. For pool and splash pad applications, do not fill the pool or operate spray jets until the surface is 100% cured.

E. Edge Detail: See [www.duraplay.com](http://www.duraplay.com) or request pdf.

**2.04 WARRANTY:**

Standard warranty period is 3 years from the date of completion for all water applications.

**2.05 PROTECTION:**

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

**2.06 CLEANING AND MAINTENANCE:**

DuraPlay Safety 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 DuraSplash 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 1part 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).

