

# 3-Part Specification: DuraPaver™



## **SURFACE**AMERICA®

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### **PART 1 – GENERAL**

#### **1.01 SUMMARY**

A. Section Includes: Rubber tile/paver for recreational surfacing.

**Specifier Note:** Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI *MasterFormat* and specifier's practice. In the absence of related sections, delete paragraph below.

**Specifier Note:** Site materials and methods, drainage, equipment, fencing, substrate preparation and similar work are provided by others and are described in other sections. Consult with manufacturer for specific substrate preparation requirements. Edit, retain or delete paragraph below to suit project requirements and specifier practice.

B. Related Sections: Division 2 Sitework Sections: Materials and Methods, Excavation, Asphalt Paving, Concrete Paving, Sub-Drainage, Storm Drainage, Fencing.

**Specifier Note:** Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

#### **1.02 REFERENCES**

A. American Society for Testing and Materials (ASTM):

1. ASTM D297 Standard Test Method for Rubber Products Chemical Analysis.
2. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.

4. ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus. Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

### 1.03 SYSTEM DESCRIPTION

A. Performance Requirements: Provide a single layer rubber tile/paver which has been designed, manufactured and installed to meet the following criteria:

1. DuraPaver:
  - a. Density (ASTM D297): 55 pcf (881 kg/m<sup>3</sup>) minimum.
  - b. Tensile Strength (ASTM D412): 50 psi (345 kPa) minimum.
  - c. Coefficient of Friction (ASTM D2047): > 0.7.
  - d. Flexibility (ASTM F137): Pass 1" (25.4 mm) mandrel.

**Specifier Note:** Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

### 1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Verification Samples: Submit manufacturer's standard verification samples of 9" x 9" (229 x 229 mm) minimum or a whole DuraPaver.

D. Quality Assurance/Control Submittals: Submit the following:

1. Certificate of qualifications of the floor surfacing installer.

E. Closeout Submittals: Submit the following:

1. Warranty documents specified herein.

**Specifier Note:** Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

### 1.05 QUALITY ASSURANCE

A. Qualifications: Utilize an installer having experience with projects of similar scope and complexity.

**Specifier Note:** Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

## 1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 20 degrees F (-7 degrees C) and a maximum temperature of 100 degrees F (38 degrees C). Specifier Note: In article below, state physical or environmental limitations or criteria for installation such as weather, temperature, humidity, ventilation or illumination required for proper installation or application.

## 1.07 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Install floor-surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C).

**Specifier Note:** Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

## 1.08 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

C. Proper drainage is critical to the longevity of the DuraPaver surfacing system. Inadequate drainage will cause premature breakdown of the tiles in affected areas; and void the warranty.

**Specifier Note:** Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: 5 years from date of substantial completion.

## PART 2 – PRODUCTS

**Specifier Note:** Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

### 2.01 RUBBER TILE/PAVER

**Specifier Note:** Retain or delete paragraph below per project requirements and specifier's practice.

A. Manufactured by Ecore International, provided and installed by Surface America Inc. Contact: Surface America, Inc. Contact: PO Box 157, Williamsville, NY 14231; Telephone: (800) 999-0555, (716) 632-8413; Fax: (716) 632-8324; E-mail: [info@surfaceamerica.com](mailto:info@surfaceamerica.com); website: [www.surfaceamerica.com](http://www.surfaceamerica.com).

B. Proprietary Products/Systems. Rubber tile/paver, including the following:

**Specifier Note:** Metric products are produced in the U.S. and converted to English approximates.

1. DuraPaver:

a. Material: Pigmented pavers: 100% post-consumer recycled SBR (Styrene Butadiene Rubber) and pigmented polyurethane.

b. Coverage: 3.42 pavers per square foot, 0.29 ft<sup>2</sup> (0.026 m<sup>2</sup>) per paver.

c. Size: 7 3/4" (197 mm) long x 6 1/4" (159 mm) wide x 4 1/2" (114 mm) at center.

d. Type, Thickness and Weight: [Split Paver: 7/8" (21 mm) 1.25 lb (0.57 kg)] [Beveled Edge for Split Paver: 7/8" x 2 1/2" x 39 1/4" (21 x 65 x 1000 mm)] [Full Paver 1 3/4" (43 mm) 2.5 lb (1.1 kg)] [Beveled Edge for Full Paver: 1 3/4" x 7" x 39 1/4" (43 x 180 x 1000 mm)] [Beveled Edge for Full Paver: 1 3/4" x 11 3/4" x 39 1/4" (43 x 300 x 1000 mm)].

e. Color: [Black] [Terra Cotta Red] [Gray] [Green].

**Specifier Note:** Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

## 2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

**Specifier Note:** Specify subordinate or secondary items that aid and assist primary products specified above or are necessary for preparation or installation of those items.

## 2.03 ACCESSORIES

A. Provide accessory items as follows:

1. Surface America EverGrip Adhesive.

# PART 3 – EXECUTION

**Specifier Note:** Revise article below to suit project requirements and specifier's practice.

## 3.01 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the floor-surfacing manufacturer.

**Specifier Note:** Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

## 3.02 EXAMINATION

A. Site Verification of Conditions: Verify that substrate conditions are suitable for installation of the floor surfacing system.

B. Do not proceed with installation until unsuitable conditions are corrected.

C. Proper drainage is critical to the longevity of the DuraPaver surfacing system. Inadequate drainage will cause premature breakdown of the tiles in affected areas; and void the warranty.

**Specifier Note:** Specify actions required to physically prepare the surface, area or site or to incorporate the primary products of the section.

### 3.03 PREPARATION

A. Surface Preparation: Ensure that the concrete or asphalt substrate is level or uniformly sloped since surface variations will be telegraphed through to the rubber tile surface.

**Specifier Note:** Coordinate article below with manufacturer's recommended installation requirements.

### 3.04 INSTALLATION

A. Do not proceed with surfacing installation until all applicable site work, including substrate preparation, fencing, equipment installation and other relevant work, has been completed.

B. On outdoor installations, avoid placement when large temperature swings during the time between adhesive application and final curing are expected, as gapping between tiles may result.

C. General:

a. Install DuraPaver 1 3/4" (43 mm) [Loose laid] [Adhered side to side] [100% adhered].

b. Use Evergrip Adhesive where adhesive application is required.

c. For full adhesive installation, apply adhesive on tight asphalt or concrete at a rate of approximately 65 ft<sup>2</sup>/gal (63 m<sup>2</sup>/L). Adhesive consumption will increase as asphalt porosity increases.

d. Apply adhesive to sub-base using a notched trowel. Apply adhesive to tile sides using a putty knife or direct from adhesive tube.

D. Installation Where Beveled Edges Are Not Required:

a. Assume the abutting curb, fence or wall is not perfectly straight.

b. At any one of the 4 sides of the installation area, snap chalk line #1 approximately 6" (152 mm) in from any curb, fence or wall perimeter

c. Snap chalk line #2 perpendicular to line #1 approximately 6" (152 mm) in from any curb, fence or wall perimeter.

d. Begin laying whole tiles where lines intersect. Lay whole tiles left to right along line #1 up to curb, fence or wall on the opposite side of chalk line #2. Cut last tile if needed to fit against curb, fence or wall.

e. Continue this process until reaching curb, fence or wall across from chalk line #1.

f. Go back and fill in gaps between the 2 original chalk lines and the curb, fence or wall on those 2 sides.

E. Installation Where Beveled Edges Are Required:

- a. Go around entire perimeter and snap a chalk line showing where beveled edge will end.
- b. Lay beveled edge in place, fully adhered, around entire area.
- c. Begin laying whole tiles against beveled edge on any side. Lay whole tiles left to right along the beveled edges. Cut last tile to fit tightly.
- d. Continue the process with each row until reaching beveled edge on opposite side of area.

**Specifier Note:** Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 1 Execution Requirements Section.

### **3.05 PROTECTION**

- A. Protect the installed surface from damage resulting from subsequent construction activity on the site.