

SURFACE AMERICA

I N C O R P O R A T E D

Masters in Recreational Surfacing

TECHNICAL DATA BOOKLET

- Product Data
- Edge Details
- Installation Overviews
- Architectural Specifications

*From:
Crystal
Surface
America*



**Recycled Materials Used
in Every System**

Toll Free 800-999-0555

General

Everlast Tiles are manufactured using recycled rubber granules and high quality, weather-resistant, polyurethane binder.

ASTM D3676 Density pcf: 63 min.

ASTM D2240 Shore A Hardness: 55 ± 5

ASTM F36 Compression & Recovery (100 psi 5-15): C 5-15% and R 85% min.

ASTM D412 Tensile Strength: 160% min.; Elongation: 90% min.

ASTM F147 Flexibility: 0

ASTM D2047-82 Coefficient of Friction: 1.20 dry; 1.20 wet

ASTM D624 Tear Strength (Die C Tear ppi): 75 min.

ASTM D395 Compression Set B (25% defl., 158°F/22 hrs.): 60 max.

ASTM D623 Compression Endurance (10,000 cycles w/4-10 ton load):

No deterioration

Acoustic Rating: Superior

NY Fire Gas Toxicity Test #09300 900 216 4006

► INSTALLATION OVERVIEW

- Make the assumption that the curb, fence or wall that you are butting against is not perfectly straight.
- Go to any of the four sides and snap a chalk line, approximately 6" from the curb, fence or wall.
- Snap chalk line #2 perpendicular to chalk line #1, approximately 6" from the curb, fence or wall.
- Begin laying whole tiles where the chalk lines intersect. Lay whole tiles left to right along chalk line #1 up to the curb, fence or wall on the opposite side of chalk line #2. The last tile will likely have to be cut to fit against the curb, fence or wall.
- Continue this process with each row until you have reached the curb, fence or wall across from chalk line #1.
- Go back and fill the gaps between the two original chalk lines and the curb, fence or wall on those two sides.

Special Notes:

- Approximately 65 square feet is the coverage per gallon of adhesive (325 square feet per five gallon pail of adhesive).
- Apply the adhesive to the base using a 3/32" (1/8" on open asphalt) notched trowel. Concentrate the adhesive the width of the trowel around the bottom perimeter of the tile.
- The tiles are typically cut with a utility knife.

6 AMERITILE™

Indoor Sport
In-Line Skating, Basketball, Volleyball,
Soccer, And More...

Dry-Top
Pool Surrounds, Locker Rooms,
Sauna & Shower Areas, Ski Facilities

Aerobic
Aerobics, Dancing

Outdoor Sport
In-Line Skating, Basketball, Volleyball,
And More...

► PRODUCT DATA**General****Indoor Sport**

PVC
Size: 24" x 24" x 1/4"
Weight: 6 lbs. per tile (1.5 lbs. per sq.ft.)
Surface Options: Smooth Top (most common)... Also available in Raised Disc, Diamond Top
Locks: Puzzle Lock System, 14 locks per side, 56 locks per tile
Box: 6 tiles per box (24 square feet)

Dry-Top

PVC
Size: 12" x 12" x 7/16"
Weight: 1.0 lb. per tile
Top Surface: Open Grid, Drain Thru
Locks: Two sides with five male locks each, two sides with five female locks each. Twenty locks per tile
Box: 56 tiles

Dry-Top Plus

PVC
Size: 12" x 12" x 3/4"
Weight: 1.4 lbs. per tile.
Top Surface: Open Grid, Drain Thru with raised rib for extra traction
Locks: Two sides with two male locks each, two sides with two female locks each, eight locks per tile. (Can be mounted. See installation instructions, Section IV)

Box:**Aerobic**

PVC
Size: 12" x 12" x 3/4"
Weight: 1.8 lbs. per tile
Top Surface: Solid Top Surface with raised bump
Locks: Two sides with two male locks each, two sides with two female locks each, eight locks per tile (Can be mounted. See installation instructions, Section IV)

Box:**Aerobic Smooth**

PVC
Size: 12" x 12" x 3/4"
Weight: 1.8 lbs. per tile
Top Surface: Solid Top, Smooth Surface
Locks: Two sides with two male locks each, two sides with two female locks each, eight locks per tile (Can be mounted. See installation instructions, Section IV)

Box:**Outdoor Sport**

POLYPROPYLENE
Size: 12" x 12" x 7/16"
Weight: 1.0 lb. per tile
Locks: Two sides with five male locks each, two sides with five female locks each, twenty locks per tile
Box: 56 tiles
Top Surface: Open Grid, Drain Thru

Special Notes:

Transition pieces available for all 12" square tiles (*Dry-Top*, *Dry-Top Plus*, *Aerobic*, *Aerobic Smooth* and *Outdoor Sport*). Transition Edge 12" x 2". Transition Corners: 14" x 2".

PVC and Polypropylene are resistant to most stains. To clean, simply vacuum, mop, scrub or hose down surface. For difficult stains, a non-abrasive glass cleaner or all-purpose cleaner may be used. Only hose down if proper drainage is underneath or installation is outside.

Features

Materials are PVC (polyvinyl chloride - *Indoor Sport, Dry-Top, Dry-Top Plus, Aerobic, and Aerobic Smooth*) and Polypropylene (*Outdoor Sport only*).

- Snap together tiles
- Options: Available for indoors and outdoors, porous or non-porous.
- Easy installation
- Game lines painted on tile

Colors

- Light gray, dark gray, yellow, red, green, dark blue, pool blue, beige and black
- Custom colors available with a minimum order of 1,000 tiles

▶ TYPICAL EDGE DETAILS

- Transition pieces available with all AmeriTile Systems except *Indoor Sport*.
- *Indoor Sport* Edge Detail - (1/4" thick). If desired, use standard flooring transition strips.

▶ INSTALLATION INSTRUCTIONS

PART I - GENERAL INSTALLATION

- Tiles lock together easily using a rubber mallet.
- Make sure tiles are precisely aligned when installing.
- A sharp utility knife may be used to trim tiles to fit around perimeter.

PART II - GENERAL INSTRUCTIONS

- Align tiles in same direction (so they look exactly alike next to one another). Refer to diagram 1.
- Take the male stud of the locks on tile (the part exposed on the perimeter of two sides of the tile) and align with the female locks hidden beneath the adjacent tile's side. Slide the female locks over the male studs and snap in with hands or rubber mallet. (refer to diagram 2).
- Continue locking tiles together, in same direction until you cover the dimensions of your area.

PART III - TILE SURFACE INSTALLATION

- Square your court by snapping chalk lines precisely at the outside perimeter of the area to be covered. Ensure the chalk lines are straight and intersect at 90° angles to one another.
- Identify a the back side of the area. Determine the center point of the back side and mark with a straight, perpendicular line. Lay one tile with its back edge aligned with the back chalk line and its side aligned with the center line. Snap in a second tile in the same direction with the sides along the center line.
- Lock tiles together along the back side of your surface working out from center to left and right edges respectively, making sure the tiles align with the back chalk line.
- When the left and right side chalk lines are reached with tiles, trim the tile (if desired) with a sharp utility knife to align with the left and right chalk lines.
- Cutting - If you have to cut the tiles, along the perimeter, use a strong utility knife or a small band saw. Keep in mind that if you cut the tiles, you remove the locks from them and the cut tile cannot be added to another tile or edge piece.
- Starting from your original center two tiles, install a row of tiles, two tiles wide, down the center of your court until the top chalk line is reached. Make sure the tiles are centered and straight with the chalk line.
- You will now have a "T" alignment of tiles. Make sure this "T" is straight and perpendicular.
- Install the remaining tiles by locking one to the next. When working out to each chalk line, make sure the tiles remain straight. Trim to the edges of the chalk line, if desired.
- When using multiple colors on your surface, make sure you follow the color alignment set forth in the court diagram.
- Apply games lines per painting instructions using specified paint.

PART IV - SPECIAL INSTRUCTIONS

for *Dry-Top Plus, Aerobic, and Aerobic Smooth*

- These tiles have a unique feature that allows them to be mounted to the substrate using mounting screws.
- The holes for the mounting screws are located on the male locks.
- Before snapping the tiles together, place a screw in the mounting hold and screw into the substrate.
- Use an appropriate screw for the substrate you are covering.
- Screws may be placed as often as needed throughout the surface to prevent movement.

PART V - EDGE AND CORNER ASSEMBLY

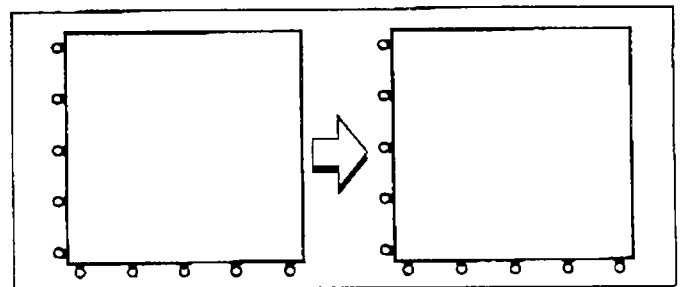
- AmeriTiles have a border ramp available for all 12" x 12" tiles. These edges give the surface a finished off look and also serve to eliminate a tripping hazard as someone enters the AmeriTile floor. (diagram 3 shows an edge and corner piece).
- Determine what type edging you need - male, female or both. If you want to place a border edge on your surface, decide where the edge is wanted. Determine what side of the tile you will be locking the edge to (male or female). If the male studs are exposed, this is the male side of the tile. If not, it is female. If the male side is exposed you need a female edge and vice versa.
- Each edge is 12" long, so you will need the same number of edge pieces as tiles you are placing them on.
- Corner edges are placed on the corners of the surface and provide a rounded out appearance to your edging. These pieces are longer than the normal edge so that they can round the surface and connect to the next edge without any need for cutting or mitering.
- Simply snap the edges in place the same way you assembled your tiles, placing the female lock over the male stud and snapping it in.

PART VI - AMERITILE PAINT SPECIFICATIONS - GAME LINING

Product: Epoxy Paint, *Aqua Pond*, by Pittsburgh Paints
 Alternative: *Aqua Pond WB* by Pittsburgh Paints (Water Born version)
 These are listed under the #97 and #98 lines of Pittsburgh Paints.

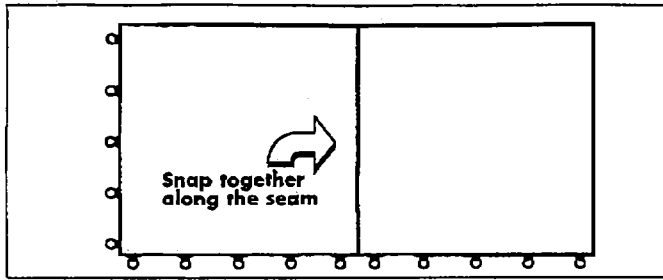
Availability: Check with your local Pittsburgh Paints distributor.

- This paint is a two part system, where the paint is mixed from equal parts of color and catalyst. After drying, a clear sealant may be applied to provide extra durability.
- To apply, mask out the 2" game lines and apply evenly with a small roller on a clean surface.

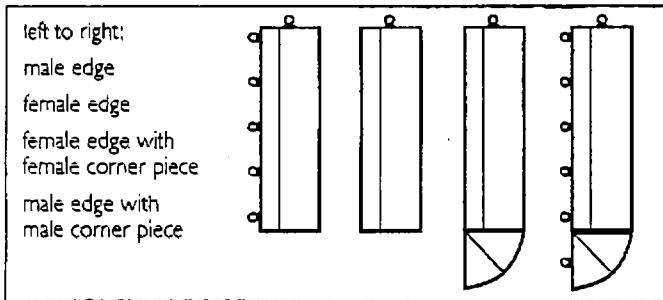


Orientation of Tiles (diagram 1)

See PRODUCT DATA (page 11) for number of locks for each tile. Lock design, shown in diagram, is representative of *Dry-Top* and *Outdoor Sport*.



Snapping Tiles Together (diagram 2)



Edge & Corner Pieces (diagram 3)

► **ARCHITECTURAL SPECIFICATIONS**

PART I - GENERAL

I.01 DESCRIPTION:

- A. Scope of Work
 - 1. The furnishing of interlocking synthetic modular tile system.
 - 2. Game Lining

I.02 RELATED WORK SPECIFIED ELSEWHERE:

- A. Installation of concrete, bituminous, or wood substrate.
- B. Preparation of substrate to provide medium, dense finish with level tolerance of [+] or [-] 1/8" in any 10 foot radius.
- C. Substrate should be free of any debris before tile surface is installed.
- D. Membrane waterproofing to the extent that the engineer determines need.
- E. Cove base moldings and thresholds where necessary.

I.03 QUALITY ASSURANCE:

- A. Acceptable Manufacturer
 - 1. The manufacturer shall be a firm experienced in the manufacturing of interlocking PVC and polypropylene floor covering.
- B. Acceptable Installer
 - 1. The installer shall thoroughly read and closely follow the installation instructions on pages 12 & 13 of this booklet.
- C. Warranty
 - 1. Modular tile surface shall be **WARRANTED** by the manufacturer for any defects in material and workmanship for a period of **FIVE YEARS** from the date of purchase.

I.04 SUBMITTALS:

- A. Submit samples of the modular tile surface and literature, as required.

I.05 JOB CONDITIONS:

- A. Installation
 - 1. Modular tiles shall not be installed until all other trades except bleachers, goals, boards and side moldings are completed in the area.
 - 2. Substrate shall be level to specified tolerances set forth in Section 1.02. free of debris and materials, and broom clean.
- B. Storage
 - 1. Material shall be stored in a clean, dry and secure place until installation is complete.

PART II - PRODUCTS

2.01 SYNTHETIC MODULAR TILE SYSTEM:

- A. Product: Prefabricated tile system, AmeriTile by Surface America, Inc.
- B. Dimensions: 24" x 24" x 1/4" (*Indoor Sport*), 12" x 12" x 7/16" (*Outdoor Sport*), 12" x 12" x 7/16" (*Dry-Top*), 12" x 12" x 3/4" (*Aerobic and Dry-Top Plus*).
- C. Weight: 6 pounds per tile = 1.5 pounds per square foot (*Indoor Sport*), 1.8 pounds per tile (*Aerobic and Aerobic Smooth*), 1.4 pounds per tile (*Dry Top Plus*), 1.0 pounds per tile (*Dry Top and Outdoor Sport*).
- D. Locking: Puzzle lock system, no space in locks.
- E. Flammability: Meets ASTM E 648-94a, Class II Critical Radiant Flux standard.

2.02 TEST REQUIREMENTS:

Density (ASTM D 792-88):	1.3 grams/cc
Brittleness/Temp (ASTM D 745-73):	-24C
Elongation (ASTM D 638-77):	350%
Tensile Strength (ASTM D 2863-77):	2000 psi
Flame Resistance (ASTM 648):	Class 2, NFPA 253. NBSIR 75-950
Resistant To:	Mold, mildew, oil, gasoline, most solvents, water, caustics and ozone. Retards bacteria growth. Contains UV Stabilizers.

2.03 LINE MARKINGS:

- A. Line markings (paint) shall be specifically formulated for application to the flooring material and meet manufacturer's recommendations.

2.04 UNDERLAYMENT (Optional - not necessary or recommended):

- A. Resilient underlayment shall consist of a continuous layer of minimum 2mm thickness rolled rubber sheet in accordance with manufacturer's recommendations.

PART III - EXECUTION

3.01 SUBSTRATE:

- A. Substrate shall be reviewed by installer for contamination, dryness and levelness. Any deviation from specified tolerances shall be reported in writing to the architect for correction.
- B. Architect will implement necessary corrections to substrate and inform installer upon completion of corrections.

3.02 INSTALLATION:

- A. Install modular tile surface in accordance with latest manufacturer's recommendations.
- B. Game lining to be installed per manufacturer's recommendations.
- C. Bleachers, goals and moldings to be installed after modular tile surface installation is complete.

7 DURAPAVER™

**Golf Facilities, Patios,
High Traffic Areas, Walkways**

► **PRODUCT DATA**

General

- 7-3/4" long x 6-1/4" wide x 4-1/2" @ center (3.42 pavers/sq ft)
- Thickness & Weight (each)
- Split Paver: 7/8" (1.25 lbs)
Beveled edge available:
7/8" x 2-1/2" x 39-1/4" (21.5mm x 65mm x 1000mm)
- Full Paver: 1-3/4" (2.5 lbs)
Beveled edges available:
1-3/4" x 7" x 39-1/4" (43mm x 180mm x 1000mm)
1-3/4" x 11-3/4" x 39-1/4" (43mm x 300mm x 1000mm)