



# ***PADENPOR***<sup>TM</sup>

**By Abacus**

SPECIFICATION SHEET  
***PADENPOR***<sup>TM</sup> MULTIPURPOSE FLOORING SYSTEM

## **PART 1 GENERAL**

### 1.1 SCOPE

The complete installation of the ***PADENPOR***<sup>TM</sup> Multipurpose Flooring System consists of a prefabricated rubber basemat (7mm) integrated with seamless, self-leveling polyurethane topcoats (2mm). The finished product is a homogeneous and resilient multipurpose synthetic surface with the unique characteristics of a dual-durometer system.

### 1.2 RELATED SECTIONS

#### A) Subfloor

The ***PADENPOR***<sup>TM</sup> Multipurpose Flooring System shall not be installed until concrete has cured for a minimum of 30 days (moisture content not to exceed 3% - generally requires 14 days per inch of concrete). The general contractor shall furnish, install, and finish the concrete subfloor, depressing the slab sufficiently to accommodate the floor system. Concrete subfloors should be clean, dry, free from any sealer, drying agent, curing compound or parting compound. The slab shall be steel troweled to a true level and finished smooth and straight to a tolerance of 1/8" in any 10' radius.

The general contractor shall suitably prepare subfloor. High spots shall be ground level, and low spots filled with approved leveling compounds. Any crack filling of the concrete must be done with an approved cement-based filler. All grease and oil must be completely removed, as these will prevent the adhesive from achieving a proper mechanical bond. The concrete slab movement should be stabilized by a constantly maintained room temperature.

The general contractor shall adequately waterproof beneath the slab and at the perimeter subfloors on or below grade using a suitable type membrane. Below grade slabs or areas with hydrostatic head shall be adequately waterproofed beneath the slab on earth side of walls using 1/8" premolded membrane.

The subfloor shall be turned over to the flooring contractor broom clean.

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**1.3 FLOORING CONTRACTOR**

An experienced flooring contractor approved by the distributor, as described in the scope of these specifications, shall carry out the complete installation of the flooring system, and the work shall be performed in accordance with the most recent installation instructions.

**1.4 SUBMITTALS**

- A) **PADENPOR™** Multipurpose Flooring System specification sheet
- B) Product Data Sheets
- C) Samples of **PADENPOR™** Multipurpose Flooring System in the specified thickness
- D) Maintenance Guidelines

**1.5 DELIVERY & STORAGE**

All materials shall be delivered and stored in their original containers with seals unbroken, and labels intact, in a maintained area with a minimum room temperature of 55<sup>0</sup>F.

**1.6 WORKING CONDITIONS**

The synthetic flooring specified herein shall not be installed until all masonry, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished their works in the floor area. The general contractor shall remove foreign material from subfloor (i.e. paint, mortar, drywall compound, etc.)

The building must be dry, all openings must be closed in, and permanent heating and air conditioning installed and working. Moderate room temperature of 65<sup>0</sup>-75<sup>0</sup>F shall be maintained one week prior to and throughout the duration of the installation.

**PART 2 PRODUCT**

- 2.1 DISTRIBUTED BY: Abacus Sports Installations, Ltd.  
836 Flory Mill Road  
Lancaster, PA 17601  
Tel: (800) 821-4557

**2.2 MATERIALS**

- A) Basemat Adhesive

Shall be a two-component polyurethane adhesive supplied by the flooring distributor and specifically compounded to assure compatibility with the basemat and applicable subsurface. The adhesive shall be applied in accordance with the manufacturer's instructions at a rate of 0.2 lbs. per sq. ft.

- B) Basemat

Shall be prefabricated **PADENPOR™-MAT 628** supplied by the flooring distributor in a thickness of 7mm and roll-width of 59", made out of recycled SBR rubber and bound with an environmentally safe MDI polyurethane binder. The basemat material is treated to resist most types of microbes, oils, and fungi.

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C) Basemat Sealer

Seal coat shall be a two-component polyurethane compound supplied by the flooring distributor and applied at a rate of 0.12 lbs. per sq. ft.

D) Wear Coat

Shall be a two-component self-leveling polyurethane compound supplied by the flooring distributor and applied at a rate of 0.50 lbs. per sq. ft.

E) Color Finish

Shall be a two-component polyurethane varnish supplied by the flooring distributor and applied at a rate of 0.06 lbs. per sq. ft. The color shall be selected from a color-chart available from the flooring distributor.

F) Line Paint

Shall be a two-component polyurethane line-paint supplied by the flooring distributor. Select line colors from blue, yellow, white, red, green, black or orange.

2.3 TECHNICAL DATA

A) *PADENPOR™-MAT*

|                   |              |   |                 |    |
|-------------------|--------------|---|-----------------|----|
| Density           | ASTM D-3676: | 45 pcf  |                 |    |
| Tensile           | ASTM D-412:  | 88 psi  |                 |    |
| % Elongation      |              | 97%   |                 |    |
| Compressibility   | ASTM F-36 A: | <u>%</u>  | <u>Recovery</u> |    |
|                   |              | 50 psi  | 20              | 87 |
|                   |              | 100 psi   | 32              | 91 |
|                   |              | 200 psi   | 42              | 91 |
| Die Tear PPI      | ASTM D-624:  | 30  |                 |    |
| Flexibility       | ASTM F-147:  | 0 - 1   |                 |    |
| Compression Set B | ASTM D-395:  | 26 @ 25 % deflection (158 <sup>0</sup> F/22hrs) |                 |    |

B) 2mm Polyurethane Topcoats

(Mercury and lead are not permissible on any trace quantity!)

|                      |  |
|----------------------|--|
| Shore Hardness:      | A80  |
| Compression Set:     | 97%-99% recovery after 72 hours at 50% compression |
| Abrasion Resistance: | RV 32 according to DIN 18032                       |
| Shock Absorbency:    | 21%  |
| Slip Resistance:     | 0.45   |
| Rolling Load:        | 1000 N according to DIN 10832/2                    |
| Ball Rebound:        | 99% according to DIN 18032/2                       |
| Elongation at Break: | 150% according to DIN 53517                        |
| Fire Rating:         | Class I according to DIN 51960                     |

**PART 3 INSTALLATION**

3.1 All two-component polyurethane compounds must be power-mixed for at least 5 minutes before application.

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- 3.2 Apply polyurethane adhesive directly onto subfloor by using a notched trowel.
- 3.3 Roll **PADENPOR™**-MAT into adhesive by using an installation cart. Roll seams with a carpet roller and repeat rolling the entire surface approximately 45 minutes after installation.
- 3.4 Apply sealer by using a straight trowel. The sealer must be applied in two layers. Allow each layer to properly cure and inspect the entire floor again for any open spots. Grind down any ridges using a circular grinder with sandpaper. Clean floor by vacuuming or dry dust mop.
- 3.5 Apply wear coat by using a notched squeegee. Make sure that the material is applied wet-in-wet. Allow surface to cure entirely and if necessary, grind down any imperfections using sandpaper of 150 or finer grain. Clean floor by vacuuming or dry dust mop.
- 3.6 Apply color-finish using lambskin rollers or airless spray machine. Allow surface to cure sufficiently after application.
- 3.7 Lay out and tape game lines according to specifications. Apply paint using rollers.

#### **PART 4 MAINTENANCE**

No wax should be applied to matte polyurethane finish. Regular cleaning can be carried out with a water/detergent mixture using a wet mop. If necessary, use a nylon brush in order to remove heavy dirt. Dust can be removed with a damp mop, which has been sprayed with a very light water/detergent mixture. Major dirt marks (from black shoe soles, etc.) can be wiped off with polyurethane thinner or acetone.

#### **PART 5 WARRANTY**

Abacus Sports Installations, Ltd. offers an express three (3) year warranty that its products are free from any defects in material and workmanship, that its products shall meet all specifications and that the products shall perform effectively.

Abacus Sports Installations, Ltd. warrants that during the warranty period the resilient surfacing shall not harden, become brittle, chip, crack, tear or exhibit any signs of excessive deterioration except normal wear and tear. All other warranties, including implied warranties of fitness for a particular purpose are expressly excluded. The sole remedy against the seller will be the replacement or repair of defective goods, or at seller's option, credit may be issued not exceeding the selling price of the defective goods.

Abacus Sports Installations, Ltd. reserves the right to change or modify these specifications without notice.