

POLYTURF PLUS PAD & POUR

RESILIENT URETHANE AND RECYCLED RUBBER FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. *Seamless, 2-mm polyurethane resin over prefabricated rubber basemat including adhesive, finish coating and gameline markings.*

1.02 RELATED SECTIONS

- A. *Section 03300 – Cast-In-Place Concrete: Concrete subfloor with broom finish.*

1.03 SUBMITTALS

- A. *See Section 01300 – Administrative Requirements, for submittal procedures.*
- B. *Product Data: Provide data on specified products, describing physical and performance characteristics: sizes, patterns and colors available.*
- C. *Samples: Submit two samples, 12 x 12 inch in size illustrating color and pattern for each color specified.*
- D. *Manufacturer's Installation Instructions: Indicate special procedures.*
- E. *Maintenance Data: Include damage prevention procedures, maintenance procedures, recommended maintenance materials, repairing surface, and suggested schedule for cleaning.*

1.04 QUALITY ASSURANCE

- A. *Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years experience.*

1.05 DELIVERY, STORAGE AND HANDLING

- A. *Store materials in a dry, secure area.*
- B. *Maintain minimum temperature of 70 degrees F.*

- C. *Store materials in area of installation for three days prior to installation to achieve temperature stability.*

1.06 ENVIRONMENTAL REQUIREMENTS

- A. *Maintain ambient temperature required by manufacturer for minimum period of 72 hours prior to, during and 24 hours after installation of materials.*
- B. *Store Materials in area of installation for minimum period of 24 hours prior to installation.*
- C. *Maintain relative humidity in area of installation at 70 percent, maximum, during installation and for a minimum period of 72 hours after installation.*

1.07 WARRANTY

- A. *Resilient sports flooring is warranted against defects in materials and workmanship for a period of three (3) years from the date of installation. The warranty excludes damage or defects caused by improper construction or design of the subfloor, by subsequent deterioration of the subfloor, moisture migration, hydrostatic pressure, neglect, lack of maintenance, vandalism, abuse or acts of God.*

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. **BEYNON SPORTS SURFACES, INC.** – *Product: PolyTurf Plus Pad & Pour*
- B. *Substitutions: See Section 01600 – Product Requirements.*

2.02 MATERIALS

- A. *Base Mat Adhesive: Two-component polyurethane adhesive applied at a rate of 70 ft²/gal.*
- B. *Base Mat: Prefabricated rubber mat made of all recycled rubber Granules bound with MDI polyurethane binder with a constant thickness of 9mm. No liquid-applied polyurethane base layers will be accepted.*
- C. *Sealer: A two-component, Thixotropic Polyurethane sealer applied at rate of 0.17 lbs/ft².*



- D. *Resin: Pigmented, two-component polyurethane wear layer shall be applied at a rate of 0.55 lbs./ft². The wear layer shall be self-leveling and result in a total polyurethane thickness of 2 mm.*
- E. *Coating: Two component pigmented polyurethane matte finish shall be applied at a rate of 250 ft²/gal. Color to be selected from Manufacturers standard colors.*
- F. *Total thickness of flooring system shall be 11 mm.*

2.03 PHYSICAL PROPERTIES

- A. *Polyurethane top layer shall meet the following physical properties:*
 - a. *Tensile Strength (ASTM D 624):* *1100 ± 100 psi*
 - b. *Elongation at Break (ASTM D 624):* *120 ± 10%*
 - c. *Tear Strength (ASTM D 624):* *62 ± 6 pli*

- B. *Prefabricated rubber base layer shall meet the following Physical Properties:*
 - a. *Density (ASTM D-297):* *.67g/cm³*
 - b. *Tensile Strength (ASTM D-412):* *88%*
 - c. *Elongation (ASTM D-412):* *48.5%*
 - d. *Compression:*
 - 1. *at 50 psi:* *87% recovery*
 - 2. *at 100 psi:* *91% recovery*
 - 3. *at 200 psi:* *91% recovery*
 - e. *Compression Set (ASTM D-395):* *37%*
 - 1. *(25% deflection, 22 hours at 158 degrees F°)*
 - f. *Tear Strength (ASTM D-624)* *30 pli*
 - g. *Thickness:* *9 mm*

- C. *Floor system shall meet the following performance properties:*
- a. *Thickness:* 11mm (9+2)
 - b. *Hardness:* 79-80 Shore A
 - c. *Resiliency:* 25-26%
 - d. *Shock Absorption (DIN 18032):* 35-37%
 - e. *Ball Rebound (DIN 18032):* > 98%
 - f. *Friction (ASTM D 1894) Dry:* 0.54
 - g. *Inflammability (DIN 51960):* Class I / Not Flammable

PART 3 EXECUTION

3.01 EXAMINATION

- A. *Verify that sub-floor surfaces are smooth and flat within tolerances specified in Section 03300 and are ready to receive flooring.*
- B. *Verify that sub-floor surfaces are dust-free, and free of substances which would impair bonding of materials to sub-floor surfaces.*
- C. *Verify that concrete sub-floor surfaces are ready for flooring installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by flooring materials manufacturer.*

3.02 PREPARATION

- A. *Remove subfloor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with subfloor filler.*
- B. *Vacuum clean substrate.*

3.03 INSTALLATION

- A. *Basemat:*

- a. *Thoroughly mix the base mat adhesive and apply directly to the concrete subfloor with a notched trowel at a rate of 0.17 lbs/ft².*
- b. *Roll basemat into fresh adhesive. Do not allow compression fit at any seams. Roll all basemat applications with a 100 lb. Linoleum roller, continue to repeat rolling process as necessary to ensure adhesive transfer.*

B. Seal coat:

- a. *Thoroughly mix the sealer: Apply to the basemat with a flat steel trowel. Allow the sealer coat to cure before applying resilient layer.*

C. Resilient Layer:

- a. *Thoroughly mix the resin. Apply 0.55 lbs./ft² with a precision notched rake. Mixed material shall be applied wet-to-wet to ensure a seamless surface.*

D. Matte Finish: Mix pigmented coating. Apply with airless sprayer or roller; apply at a rate of 250 ft²/gal

E. Game Lines: Layout and tape game lines using approved taping Machine. Mix two-component game line paint and roller apply. Remove tape.

F. Apply each coat to minimum thickness indicated.

G. Finish to smooth level surface.

3.04 PROTECTION

- A. Prohibit traffic on floor finish for one week after installation.*
- B. Barricade area to protect flooring until cured.*

END OF SECTION