

Specification Note:

The following specifications call out the material and default installation requirements necessary for the floor as recommended by Robbins Sports Surfaces. In some cases, local codes, physical requirements or installer recommendation may override these methods and procedures. It is Robbins recommendation to review the specification with a Regional Sales Manager or the local Authorized Dealer before incorporating the specification into the project design. Some options impact installed cost and verification of the design and budget is advised.

For the name of the local Robbins representative or dealer, contact Robbins at 1-800-543-1913 or on the web at [www.robbinsfloor.com](http://www.robbinsfloor.com) <<http://www.robbinsfloor.com>> .

## SECTION 09/GUIDE SPECIFICATIONS FOR ROBBINS PULASTIC SPORTVINYL BASIC 25 FLOOR SYSTEM

### PART 1-GENERAL DESCRIPTION

#### 1.01 DESCRIPTION

##### A. Scope

1. The complete installation of sheet PVC flooring product as supplied by Robbins, Inc., Cincinnati, OH, including adhesives, PVC sheet product, and gameline materials.

##### B. Related Work Specified Under Other Sections: (A cross reference should be incorporated in these sections.)

##### 1. Substrate Buildup:

- a. Asphalt for outdoor or indoor installations
- b. Concrete for indoor installation..... Section 03300

##### 2. Slab Depression:

- a. Depression shall be thickness of **SportVinyl Basic 25** material: 2.5mm.

##### 3. Slab Tolerance

- a. Slab tolerance is (+/-) 1/8" in radius of 10'. Surface steel troweled.
- b. **NO CURING AGENTS OR SEALERS ARE TO BE APPLIED TO THE CONCRETE SLAB.**

##### 4. Membrane Waterproofing and Dampproofing..... Section 07100

- a. Concrete subfloors on or below grade shall be adequately waterproofed beneath and at the perimeter of the slab and on the earth side of below-grade walls.

##### 5. Thresholds-Metal..... Section 08700

##### 6. Game Standard Inserts..... Section 11500

#### 1.02 QUALITY ASSURANCE

##### A. Floor System Manufacturer Qualifications

1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years; Robbins, Inc., or an approved equal.

##### B. Floor Contractor/Installer Qualifications

1. Flooring contractor shall be experienced in the flooring field and approved by manufacturer.
2. Flooring contractor shall be factory-approved, trained and have completed at least five projects of similar magnitude and complexity.
3. Submit three (3) copies of supplier's recommendations for the correct preparation, finishing and testing of concrete (wood or asphalt) subfloor surface to receive specified floor system.

### **1.03 SUBMITTALS**

- A. Manufacturer's Product Data: Submit copy of **Pulastic SportVinyl Basic 25** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Basic 25**.
- C. Maintenance Literature: Submit copy of **Pulastic SportVinyl** maintenance instructions.
- D. Submit copy of completion certificate from Robbins Installation Workshop

### **1.04 DELIVERY, STORAGE**

- A. Delivery of Materials
  - 1. Material shall not be delivered or installed until all masonry, painting, plastering, tile work, marble and terrazzo work are completed, and all overhead mechanical work, backstops, scoreboards are installed. Room temperature of at least 55 degrees Fahrenheit and moisture content of concrete slab of 3% or less, and a vapor emission of 3 pounds per 1,000 square feet or less.
  - 2. Area where materials are to be stored should be maintained at 55 degrees Fahrenheit and under 50% relative humidity by the General Contractor.

### **1.05 JOB CONDITIONS**

- A. Schedule of Installation
  - 1. Do not install floor system until concrete has been cured sixty (60) days, and the conditions in Paragraphs 1.01 and 1.04 are obtained.
  - 2. Environmental temperatures must average a minimum of 65 degrees Fahrenheit for one full week preceding, throughout, and 72 hours following application.
  - 3. Do not install **Pulastic SportVinyl Basic 25** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Basic 25** Sport Surface is installed and game lines are painted, area is to be kept locked by general contractor to allow curing time for the paint and adhesive. No other trades are to be allowed on floor until it is accepted in writing by owner or owner's authorized agent.

### **1.06 GUARANTEE**

- A. Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which material is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.
- B. Robbins, Inc. hereby warrants the **Pulastic SportVinyl Basic 25** Sport Surface material to be free from manufacturing defects for a period of two (2) years. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of Robbins. In the event of breach of any warranty, the liability of Robbins shall be limited to repairing or replacing **Pulastic SportVinyl Basic 25** surface material and system components supplied by Robbins and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

## **PART 2-PRODUCTS**

### **2.01 MATERIALS**

#### **A. Pulastic SportVinyl Basic 25 Sport Surface**

1. Shall be of 2.5mm overall thickness, with a multi-layered, heterogeneous structure that will not delaminate, and textured surface embossing. Layer build-up:
  - a. Surface protection layer: clear polyurethane protective layer
  - b. Wear layer: high-density full colored PVC layer.
  - c. Reinforcement layer: glass fiber netting
  - d. Backing: expanded closed-cell PVC foam
2. Typical physical properties of **Pulastic SportVinyl Basic 25:**

| <b><u>Physical Property:</u></b> | <b><u>Standard:</u></b> | <b><u>Specification:</u></b>                                            |
|----------------------------------|-------------------------|-------------------------------------------------------------------------|
| Thickness                        |                         | 2.5 mm                                                                  |
| Roll Length                      |                         | Standard 20 meters (~ 65' 7")<br>Max 30 meters (~ 98' 5") special order |
| Roll Width                       |                         | 1.5 meters (~ 4' 11")                                                   |
| Weight                           |                         | 1.8 Kg / m2 (~0.37 Lbs/SF)                                              |
| Shock Absorption                 | prEN 217                |                                                                         |
| Friction                         | prEN 217                | 102 unit                                                                |
| Ball Rebound                     | prEN                    |                                                                         |
| Energy Restitution               | prEN 217                |                                                                         |
| Specular Reflection              | prEN                    | 14.7%                                                                   |
| Sound Insulation                 | EN ISO 140-8 e 717-2    |                                                                         |
| Thermal Resistance               | DIN EN 12664            |                                                                         |
| Dimensional Stability            | UN 5574                 | 0.1%                                                                    |
| Light Resistance                 | UNI 7097                | >6                                                                      |
| Antibacterial Treatment          |                         | Sanalim                                                                 |
| Abrasion Resistance              | ASTM D1044              | 0.02 gr                                                                 |
| Surface Hardness                 | UNI 4916                | 82 Shore A                                                              |
| Residual Imprint                 | UNI 5574                | 0.1 mm                                                                  |
| Fire Resistance                  | UNI 9174/A1             | Class 1                                                                 |

#### **B. Adhesive: Pulastic SportVinyl Adhesives, (no other substitutions):**

1. Mapei Ultrabond G19, a two component urethane adhesive
2. Mapei Ultrabond G21, a solvent-free urethane adhesive
3. Mapei Eco350, a solvent-free acrylic adhesive (no bleachers or heavy rolling loads)

#### **C. Finishing Materials**

Gameline paint shall be recommended by Robbins and compatible with the PVC surface.

## **PART 3-EXECUTION**

### **3.02 INSTALLATION**

#### **A. Pulastic SportVinyl Basic 25 sheet PVC surface**

1. (Consult Robbins, Inc. for printed guidelines and installation instructions.
- B. Game-line painting should be in accordance with manufacturer's current procedures, using approved materials.
- C. Perimeter molding (**Optional**): Install a rubber base, anchored to walls with base cement.
- D. Clean up all unused materials and debris and remove same from the premises. Dispose of empty adhesive containers and scrap materials in accordance with federal and local statutes.

**Construction options are available to modify this system to the project design and budget.  
Contact your Regional Sales Manager or the local Authorized Dealer for more information.**

Specification Note:

The following specifications call out the material and default installation requirements necessary for the floor as recommended by Robbins Sports Surfaces. In some cases, local codes, physical requirements or installer recommendation may override these methods and procedures. It is Robbins recommendation to review the specification with a Regional Sales Manager or the local Authorized Dealer before incorporating the specification into the project design. Some options impact installed cost and verification of the design and budget is advised.

For the name of the local Robbins representative or dealer, contact Robbins at 1-800-543-1913 or on the web at [www.robbinsfloor.com](http://www.robbinsfloor.com) [<http://www.robbinsfloor.com/>](http://www.robbinsfloor.com).

## SECTION 09/GUIDE SPECIFICATIONS FOR ROBBINS PULASTIC SPORTVINYL BASIC 40 FLOOR SYSTEM

### PART 1-GENERAL DESCRIPTION

#### 1.01 DESCRIPTION

##### A. Scope

1. The complete installation of sheet PVC flooring product as supplied by Robbins, Inc., Cincinnati, OH, including adhesives, PVC sheet product, and gameline materials.

##### B. Related Work Specified Under Other Sections: (A cross reference should be incorporated in these sections.)

##### 1. Substrate Buildup:

- a. Asphalt for outdoor or indoor installations
- b. Concrete for indoor installation..... Section 03300

##### 2. Slab Depression:

- a. Depression shall be thickness of **SportVinyl Basic 40** material: 4.0mm.

##### 3. Slab Tolerance

- a. Slab tolerance is (+/-) 1/8" in radius of 10'. Surface steel troweled.
- b. **NO CURING AGENTS OR SEALERS ARE TO BE APPLIED TO THE CONCRETE SLAB.**

##### 4. Membrane Waterproofing and Dampproofing..... Section 07100

- a. Concrete subfloors on or below grade shall be adequately waterproofed beneath and at the perimeter of the slab and on the earth side of below-grade walls.

##### 5. Thresholds-Metal..... Section 08700

##### 6. Game Standard Inserts..... Section 11500

#### 1.02 QUALITY ASSURANCE

##### A. Floor System Manufacturer Qualifications

1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years; Robbins, Inc., or an approved equal.

##### B. Floor Contractor/Installer Qualifications

1. Flooring contractor shall be experienced in the flooring field and approved by manufacturer.
2. Flooring contractor shall be factory-approved, trained and have completed at least five projects of similar magnitude and complexity.
3. Submit three (3) copies of supplier's recommendations for the correct preparation, finishing and testing of concrete (wood or asphalt) subfloor surface to receive specified floor system.

### **1.03 SUBMITTALS**

- A. Manufacturer's Product Data: Submit copy of **Pulastic SportVinyl Basic 40** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Basic 40**.
- C. Maintenance Literature: Submit copy of **Pulastic SportVinyl** maintenance instructions.
- D. Submit copy of completion certificate from Robbins Installation Workshop

### **1.04 DELIVERY, STORAGE**

- A. Delivery of Materials
  - 1. Material shall not be delivered or installed until all masonry, painting, plastering, tile work, marble and terrazzo work are completed, and all overhead mechanical work, backstops, scoreboards are installed. Room temperature of at least 55 degrees Fahrenheit and moisture content of concrete slab of 3% or less, and a vapor emission of 3 pounds per 1,000 square feet or less.
  - 2. Area where materials are to be stored should be maintained at 55 degrees Fahrenheit and under 50% relative humidity by the General Contractor.

### **1.05 JOB CONDITIONS**

- A. Schedule of Installation
  - 1. Do not install floor system until concrete has been cured sixty (60) days, and the conditions in Paragraphs 1.01 and 1.04 are obtained.
  - 2. Environmental temperatures must average a minimum of 65 degrees Fahrenheit for one full week preceding, throughout, and 72 hours following application.
  - 3. Do not install **Pulastic SportVinyl Basic 40** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Basic 40** Sport Surface is installed and game lines are painted, area is to be kept locked by general contractor to allow curing time for the paint and adhesive. No other trades are to be allowed on floor until it is accepted in writing by owner or owner's authorized agent.

### **1.06 GUARANTEE**

- A. Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which material is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.
- B. Robbins, Inc. hereby warrants the **Pulastic SportVinyl Basic 40** Sport Surface material to be free from manufacturing defects for a period of two (2) years. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of Robbins. In the event of breach of any warranty, the liability of Robbins shall be limited to repairing or replacing **Pulastic SportVinyl Basic 40** surface material and system components supplied by Robbins and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

## PART 2-PRODUCTS

### 2.01 MATERIALS

#### A. Pulastic SportVinyl Basic 40 Sport Surface

1. Shall be of 4.0mm overall thickness, with a multi-layered, heterogeneous structure that will not delaminate, and textured surface embossing. Layer build-up:
  - a. Surface protection layer: clear polyurethane protective layer
  - b. Wear layer: high-density full colored PVC layer.
  - c. Reinforcement layer: glass fiber netting
  - d. Backing: expanded closed-cell PVC foam
2. Typical physical properties of **Pulastic SportVinyl Basic 40:**

| <b>Physical Property:</b> | <b>Standard:</b>     | <b>Specification:</b>                                                   |
|---------------------------|----------------------|-------------------------------------------------------------------------|
| Thickness                 |                      | 4.0 mm                                                                  |
| Roll Length               |                      | Standard 20 meters (~ 65' 7")<br>Max 30 meters (~ 98' 5") special order |
| Roll Width                |                      | 1.5 meters (~ 4' 11")                                                   |
| Weight                    |                      | 3.3 Kg / m2 (~0.67 Lbs/SF)                                              |
| Shock Absorption          | prEN 217             |                                                                         |
| Friction                  | prEN 217             | 102 unit                                                                |
| Ball Rebound              | prEN                 |                                                                         |
| Energy Restitution        | prEN 217             |                                                                         |
| Specular Reflection       | prEN                 | 14.7%                                                                   |
| Sound Insulation          | EN ISO 140-8 e 717-2 |                                                                         |
| Thermal Resistance        | DIN EN 12664         | 0.039 mqk/W                                                             |
| Dimensional Stability     | UN 5574              | 0.1%                                                                    |
| Light Resistance          | UNI 7097             | >6                                                                      |
| Antibacterial Treatment   |                      | Sanalim                                                                 |
| Abrasion Resistance       | ASTM D1044           | 0.02 gr                                                                 |
| Surface Hardness          | UNI 4916             | 77 Shore A                                                              |
| Residual Imprint          | UNI 5574             | 0.2 mm                                                                  |
| Fire Resistance           | UNI 9174/A1          | Class 1                                                                 |

#### B. Adhesive: Pulastic SportVinyl Adhesives, (no other substitutions):

1. Mapei Ultrabond G19, a two component urethane adhesive
2. Mapei Ultrabond G21, a solvent-free urethane adhesive
3. Mapei Eco350, a solvent-free acrylic adhesive (no bleachers or heavy rolling loads)

#### C. Finishing Materials

Gameline paint shall be recommended by Robbins and compatible with the PVC surface.

## PART 3-EXECUTION

### 3.02 INSTALLATION

#### A. Pulastic SportVinyl Basic 40 sheet PVC surface

1. (Consult Robbins, Inc. for printed guidelines and installation instructions.
- B. Game-line painting should be in accordance with manufacturer's current procedures, using approved materials.
- C. Perimeter molding (**Optional**): Install a rubber base, anchored to walls with base cement.
- D. Clean up all unused materials and debris and remove same from the premises. Dispose of empty adhesive containers and scrap materials in accordance with federal and local statutes.

**Construction options are available to modify this system to the project design and budget.  
Contact your Regional Sales Manager or the local Authorized Dealer for more information.**

Specification Note:

The following specifications call out the material and default installation requirements necessary for the floor as recommended by Robbins Sports Surfaces. In some cases, local codes, physical requirements or installer recommendation may override these methods and procedures. It is Robbins recommendation to review the specification with a Regional Sales Manager or the local Authorized Dealer before incorporating the specification into the project design. Some options impact installed cost and verification of the design and budget is advised.

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## SECTION 09/GUIDE SPECIFICATIONS FOR ROBBINS PULASTIC SPORTVINYL BASIC 60 FLOOR SYSTEM

### PART 1-GENERAL DESCRIPTION

#### 1.01 DESCRIPTION

##### A. Scope

1. The complete installation of sheet PVC flooring product as supplied by Robbins, Inc., Cincinnati, OH, including adhesives, PVC sheet product, and gameline materials.

##### B. Related Work Specified Under Other Sections: (A cross reference should be incorporated in these sections.)

##### 1. Substrate Buildup:

- a. Asphalt for outdoor or indoor installations
- b. Concrete for indoor installation..... Section 03300

##### 2. Slab Depression:

- a. Depression shall be thickness of **SportVinyl Basic 60** material: 6.0mm.

##### 3. Slab Tolerance

- a. Slab tolerance is (+/-) 1/8" in radius of 10'. Surface steel troweled.
- b. **NO CURING AGENTS OR SEALERS ARE TO BE APPLIED TO THE CONCRETE SLAB.**

##### 4. Membrane Waterproofing and Dampproofing..... Section 07100

- a. Concrete subfloors on or below grade shall be adequately waterproofed beneath and at the perimeter of the slab and on the earth side of below-grade walls.

##### 5. Thresholds-Metal..... Section 08700

##### 6. Game Standard Inserts..... Section 11500

#### 1.02 QUALITY ASSURANCE

##### A. Floor System Manufacturer Qualifications

1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years; Robbins, Inc., or an approved equal.

##### B. Floor Contractor/Installer Qualifications

1. Flooring contractor shall be experienced in the flooring field and approved by manufacturer.
2. Flooring contractor shall be factory-approved, trained and have completed at least five projects of similar magnitude and complexity.
3. Submit three (3) copies of supplier's recommendations for the correct preparation, finishing and testing of concrete (wood or asphalt) subfloor surface to receive specified floor system.

### **1.03 SUBMITTALS**

- A. Manufacturer's Product Data: Submit copy of **Pulastic SportVinyl Basic 60** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Basic 60**.
- C. Maintenance Literature: Submit copy of **Pulastic SportVinyl** maintenance instructions.
- D. Submit copy of completion certificate from Robbins Installation Workshop

### **1.04 DELIVERY, STORAGE**

- A. Delivery of Materials
  - 1. Material shall not be delivered or installed until all masonry, painting, plastering, tile work, marble and terrazzo work are completed, and all overhead mechanical work, backstops, scoreboards are installed. Room temperature of at least 55 degrees Fahrenheit and moisture content of concrete slab of 3% or less, and a vapor emission of 3 pounds per 1,000 square feet or less.
  - 2. Area where materials are to be stored should be maintained at 55 degrees Fahrenheit and under 50% relative humidity by the General Contractor.

### **1.05 JOB CONDITIONS**

- A. Schedule of Installation
  - 1. Do not install floor system until concrete has been cured sixty (60) days, and the conditions in Paragraphs 1.01 and 1.04 are obtained.
  - 2. Environmental temperatures must average a minimum of 65 degrees Fahrenheit for one full week preceding, throughout, and 72 hours following application.
  - 3. Do not install **Pulastic SportVinyl Basic 60** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Basic 60** Sport Surface is installed and game lines are painted, area is to be kept locked by general contractor to allow curing time for the paint and adhesive. No other trades are to be allowed on floor until it is accepted in writing by owner or owner's authorized agent.

### **1.06 GUARANTEE**

- A. Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which material is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.
- B. Robbins, Inc. hereby warrants the **Pulastic SportVinyl Basic 60** Sport Surface material to be free from manufacturing defects for a period of two (2) years. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of Robbins. In the event of breach of any warranty, the liability of Robbins shall be limited to repairing or replacing **Pulastic SportVinyl Basic 60** surface material and system components supplied by Robbins and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

## PART 2-PRODUCTS

### 2.01 MATERIALS

#### A. Pulastic SportVinyl Basic 60 Sport Surface

1. Shall be of 6.0mm overall thickness, with a multi-layered, heterogeneous structure that will not delaminate, and textured surface embossing. Layer build-up:
  - a. Surface protection layer: clear polyurethane protective layer
  - b. Wear layer: high-density full colored PVC layer.
  - c. Reinforcement layer: glass fiber netting
  - d. Backing: expanded closed-cell PVC foam
2. Typical physical properties of **Pulastic SportVinyl Basic 60**:

| <b>Physical Property:</b> | <b>Standard:</b>     | <b>Specification:</b>                                                |
|---------------------------|----------------------|----------------------------------------------------------------------|
| Thickness                 |                      | 6.0 mm                                                               |
| Roll Length               |                      | Standard 20 meters (~ 65' 7")<br>Max 25 meters (~ 82') special order |
| Roll Width                |                      | 1.5 meters (~ 4' 11")                                                |
| Weight                    |                      | 4.4 Kg / m2 (~0.90 Lbs/SF)                                           |
| Shock Absorption          | prEN 217             | 26%                                                                  |
| Friction                  | prEN 217             | 102 unit                                                             |
| Ball Rebound              | prEN                 | 97.3%                                                                |
| Energy Restitution        | prEN 217             | 66%                                                                  |
| Specular Reflection       | prEN                 | 14.7%                                                                |
| Sound Insulation          | EN ISO 140-8 e 717-2 | 18 dB                                                                |
| Thermal Resistance        | DIN EN 12664         | 0.061 mqk/W                                                          |
| Dimensional Stability     | UN 5574              | 0.1%                                                                 |
| Light Resistance          | UNI 7097             | >6                                                                   |
| Antibacterial Treatment   |                      | Sanalim                                                              |
| Abrasion Resistance       | ASTM D1044           | 0.02 gr                                                              |
| Surface Hardness          | UNI 4916             | 76 Shore A                                                           |
| Residual Imprint          | UNI 5574             | 0.2 mm                                                               |
| Fire Resistance           | UNI 9174/A1          | Class 1                                                              |

#### B. Adhesive: Pulastic SportVinyl Adhesives, (no other substitutions):

1. Mapei Ultrabond G19, a two component urethane adhesive
2. Mapei Ultrabond G21, a solvent-free urethane adhesive
3. Mapei Eco350, a solvent-free acrylic adhesive (no bleachers or heavy rolling loads)

#### C. Finishing Materials

Gameline paint shall be recommended by Robbins and compatible with the PVC surface.

## PART 3-EXECUTION

### 3.02 INSTALLATION

#### A. Pulastic SportVinyl Basic 60 sheet PVC surface

1. (Consult Robbins, Inc. for printed guidelines and installation instructions.
- B. Game-line painting should be in accordance with manufacturer's current procedures, using approved materials.
- C. Perimeter molding (**Optional**): Install a rubber base, anchored to walls with base cement.
- D. Clean up all unused materials and debris and remove same from the premises. Dispose of empty adhesive containers and scrap materials in accordance with federal and local statutes.

**Construction options are available to modify this system to the project design and budget.  
Contact your Regional Sales Manager or the local Authorized Dealer for more information.**