

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 PRO 65 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 Pro 65** material: 6.5mm.

##### 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 Pro 65** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Pro 65**.
- 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 Pro 65** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Pro 65** 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 Pro 65** 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 Pro 65** 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 Pro 65 Sport Surface

1. Shall be of 6.5mm 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. Protective structure layer: transparent, calendared PVC protective layer
  - c. Color layer: high-density full colored PVC layer.
  - d. Reinforcement layer: glass fiber netting
  - e. Backing: expanded closed-cell PVC foam
2. Typical physical properties of **Pulastic SportVinyl Pro 65:**

<b>Physical Property:</b>	<b>Standard:</b>	<b>Specification:</b>
Thickness		6.5 mm
Roll Length		Standard 20 meters (~ 65' 7") Max 25 meters (~ 82') special order
Roll Width		1.5 meters (~ 4' 11")
Weight Colors Wood Grain		5.0 Kg / m2 (~1.02 Lbs/SF) 5.1 Kg / m2 (~1.04 Lbs/SF)
Shock Absorption	prEN 217	29%
Friction	prEN 217	103 unit
Ball Rebound	prEN	96.3%
Energy Restitution	prEN 217	68%
Specular Reflection Colors Wood Grain	prEN	14.2% 13.9%
Sound Insulation Colors Wood Grain	EN ISO 140-8 e 717-2	18.3 dB 19.4 dB
Thermal Resistance	DIN EN 12664	0.068 mqk/W
Dimensional Stability	UN 5574	0.1%
Light Resistance	UNI 7097	>6
Antibacterial Treatment		Sanalim
Abrasion Resistance	ASTM D1044	0.01 gr
Surface Hardness	UNI 4916	82 Shore A
Residual Imprint	UNI 5574	0.1 mm
Fire Resistance	UNI 9174/A1	Class 1

#### 3. Standard colors of **Pulastic SportVinyl Pro 65:**

Black	Dark Green
Dark Blue	Red
Light Blue	Yellow
Silver Grey	Sand
Teal	Orange
Lime Green	Soft Orange

#### 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 Pro 65** 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 PRO 75-FD 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 Pro 75 FD** material: 7.5mm.

##### 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 Pro 75 FD** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Pro 75 FD**.
- 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 Pro 75 FD** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Pro 75 FD** 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 Pro 75 FD** 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 Pro 75 FD** 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 Pro 75 FD Sport Surface

1. Shall be of 7.5mm 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. Protective structure layer: transparent, calendared PVC protective layer
  - c. Color layer: high-density full colored PVC layer.
  - d. Reinforcement layer: glass fiber netting
  - e. Backing: expanded closed-cell PVC foam, with modeled embossing to allow both bonded and floating installation.

#### 2. Typical physical properties of Pulastic SportVinyl Pro 75 FD:

<u>Physical Property:</u>	<u>Standard:</u>	<u>Specification:</u>
Thickness		7.5 mm
Roll Length		Standard 20 meters (~ 65' 7") Max 25 meters (~ 82') special order
Roll Width		1.5 meters (~ 4' 11")
Weight		6.1 Kg / m <sup>2</sup> (~1.25 Lbs/SF)
Shock Absorption	prEN 217	33%
Friction	prEN 217	102 unit
Ball Rebound	prEN	95.2%
Energy Restitution	prEN 217	68%
Specular Reflection	prEN	14.5%
Sound Insulation	EN ISO 140-8 e 717-2	20.0 dB
Thermal Resistance	DIN EN 12664	0.074 mqk/W
Dimensional Stability	UN 5574	0.1%
Light Resistance	UNI 7097	>6
Antibacterial Treatment		Sanalim
Abrasion Resistance	ASTM D1044	0.01 gr
Surface Hardness	UNI 4916	81 Shore A
Residual Imprint	UNI 5574	0.2 mm
Fire Resistance	UNI 9174/A1	Class 1

#### 3. Standard colors of Pulastic SportVinyl Pro 75 FD:

Black	Red
Dark Blue	Yellow
Light Blue	Sand
Silver Grey	Orange
Teal	Soft Orange
Lime Green	
Dark Green	

#### 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 Pro 75 FD** 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 PRO 25 WOOD GRAIN 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 Pro 25 Wood Grain**: 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 Pro Wood Grain 25** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Pro Wood Grain 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 Pro Wood Grain 25** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Pro Wood Grain 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 Pro Wood Grain 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 Pro Wood Grain 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 Pro Wood Grain 25 Sport Surface**

1. Shall be of 2.5mm overall thickness, with a multi-layered, heterogeneous structure that will not delaminate, and slightly grained surface embossing. Layer build-up:
  - a. Surface protection layer: clear polyurethane protective layer
  - b. Protective structure layer: transparent, calendared PVC protective layer
  - c. Color layer: high-density full colored PVC layer with printed wood design.
  - d. Reinforcement layer: glass fiber netting
  - e. Backing: expanded closed-cell PVC foam

#### **2. Typical physical properties of Pulastic SportVinyl Pro Wood Grain 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") Max 30 meters (~ 98' 5") special order
Roll Width		1.5 meters (~ 4' 11")
Weight		2.3 Kg / m2 (~0.47 Lbs/SF)
Shock Absorption	prEN 217	
Friction	prEN 217	103 unit
Ball Rebound	prEN	
Energy Restitution	prEN 217	
Specular Reflection	prEN	13.9%
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	0.01 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 Pro Wood Grain 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.

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## SECTION 09/GUIDE SPECIFICATIONS FOR ROBBINS PULASTIC SPORTVINYL PRO 65 WOOD GRAIN 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 Pro 65 Wood Grain** material: 6.5mm.

##### 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 Pro 65 Wood Grain** specifications.
- B. Samples: Submit sample of **Pulastic SportVinyl Pro 65 Wood Grain**.
- 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 Pro 65 Wood Grain** Sport Surface until all other trades except bleacher installation are completed.
  - 4. After **Pulastic SportVinyl Pro 65 Wood Grain** 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 Pro 65 Wood Grain** 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 Pro 65 Wood Grain** 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 Pro 65 Sport Surface**

1. Shall be of 6.5mm overall thickness, with a multi-layered, heterogeneous structure that will not delaminate, and slightly grained surface embossing. Layer build-up:
  - a. Surface protection layer: clear polyurethane protective layer
  - b. Protective structure layer: transparent, calendared PVC protective layer
  - c. Color layer: high-density full colored PVC layer with printed wood design.
  - d. Reinforcement layer: glass fiber netting
  - e. Backing: expanded closed-cell PVC foam

**2. Typical physical properties of Pulastic SportVinyl Pro 65:**

<b>Physical Property:</b>	<b>Standard:</b>	<b>Specification:</b>
Thickness		6.5 mm
Roll Length		Standard 20 meters (~ 65' 7") Max 25 meters (~ 82') special order
Roll Width		1.5 meters (~ 4' 11")
Weight Colors Wood Grain		5.0 Kg / m2 (~1.02 Lbs/SF) 5.1 Kg / m2 (~1.04 Lbs/SF)
Shock Absorption	prEN 217	29%
Friction	prEN 217	103 unit
Ball Rebound	prEN	96.3%
Energy Restitution	prEN 217	68%
Specular Reflection Colors Wood Grain	prEN	14.2% 13.9%
Sound Insulation Colors Wood Grain	EN ISO 140-8 e 717-2	18.3 dB 19.4 dB
Thermal Resistance	DIN EN 12664	0.068 mqk/W
Dimensional Stability	UN 5574	0.1%
Light Resistance	UNI 7097	>6
Antibacterial Treatment		Sanalim
Abrasion Resistance	ASTM D1044	0.01 gr
Surface Hardness	UNI 4916	82 Shore A
Residual Imprint	UNI 5574	0.1 mm
Fire Resistance	UNI 9174/A1	Class 1

**3. Standard colors of Pulastic SportVinyl Pro 65 Wood Grain:**

Maple Wood Grain	
Oak Wood Grain	

**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 Pro 65** 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.**