

## **CUSHIONED ATHLETIC RECREATIONAL SPORTS SURFACE RUBBER URETHANE / LATEX ACRYLIC COMPOSITE - ULTIMATE CUSHION**

### **1.0 SUMMARY**

#### 1.1 Section included:

- A. Cushioned athletic recreational sports surfacing having a finished thickness of 7mm Ultimate Cushion
- B. Provide labour, materials, tools and equipment to provide Ultimate Cushion surface over concrete, asphalt or existing acrylic surfaces.
- C. Work not included:
  - 1. Sub-base materials
  - 2. Base materials
    - i. Concrete: specified in Part 3
    - ii. Asphalt: specified in Part 2
    - iii. Existing acrylic surface

#### 1.2 Related Sections:

Note: Delete any sections below not relevant to this project, add others as required.

- A. Section 3. Cast in place concrete.
- B. Section 2. Asphalt slab.
- C. Existing acrylic surface.

#### 1.3 Quality Assurance

Manufacturer: Minimum ten (10) years documented experience producing cushioned athletic recreational sports surfaces similar to those specified this section.

#### 1.4 Delivery, Storage, Handling

- A. Acceptance at site: Ensure materials arrive at the site in unopened and undamaged containers. Do not allow unacceptable materials to be used.
- B. Storage: Keep materials from freezing, store on pallets in a cool place; never in the hot sun.

#### 1.5 Materials

- A. Court Patch Binder
- B. Marathon Primer Binder
- C. Marathon Base Mat Binder
- D. 1 – 1.5 Rubber Granules
- E. 20-30 Mesh Silica Sand
- F. World Class Acrylic
- G. World Class Line Paint
- H. Water – shall be fresh and potable:

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### **1.0 SUMMARY cont'd**

#### 1.6 Recommended Ultimate Cushion System:

- 1 coat primer binder
  - 3 coats 1-3mm SBR rubber
  - 1 coat 1-1.5 rubber
  - 1 coat 20-30 sand
  - 4 coats World Class Acrylic
- Primer binder – must be applied over the entire surface at a rate of 0.04 gal/s.y.  
Allow tack coat to dry thoroughly.

#### 1.7 Project/Site Conditions:

Use of large volumes of adhesives, urethanes and other surfacing material can lead to spills. Precautions should be taken, i.e. drop cloths, in order that areas not desirous of spillage do not sustain the same.

### **2.0 EXECUTION**

#### 2.1 Examination

- A. Check asphalt, concrete, and existing acrylic surface for spalling, depressions, cracking and surface irregularities, and adhesion of any existing acrylic surfaces or residues.
- B. Installers Examination
  - a. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
  - b. Transmit two copies of installers report to architect or owner.
  - c. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited
  - d. Beginning construction activities of this section indicates installers' acceptance of conditions.

#### 2.2 Preparation

##### A. Concrete

- 1. Sub-base, by others, Part 1.1c-2a – To be trimmed smooth and compacted to a field dry density of not less than 95%.
- 2. Moisture/Vapour Barrier, by others, Part 1.1c-2a- Moisture/vapour barrier, consisting of polyethylene (6 mill. Minimum thickness) should be installed prior to installation of any steel and/or cables. Overlap polyethylene sheets at least 6" and tape joints. Once in place no vehicular traffic should be allowed on the moisture/vapour barrier nor any other object, which could puncture the barrier or otherwise compromise the integrity of the surface.

**CUSHIONED ATHLETIC RECREATIONAL SPORTS SURFACE  
RUBBER URETHANE / LATEX ACRYLIC COMPOSITE - ULTIMATE CUSHION**

**2.0 EXECUTION cont'd**

3. Surface Accuracy, by others, Part 1.1C-2a – Base concrete surface to be laid to an accuracy of a maximum deviation of 1/8 inch beneath a 10-foot straight edge when measured in any direction.
4. Curing – New concrete is to cure for 30 days prior to application.
5. Cleaning/Acid Etching – Ensure the surface is clean and free from dirt, dust, grease and foreign materials to receive cushioned sports system. When acid etching, follow manufacturers instructions and wash with copious amounts of water. Use a stiff bristle broom.
6. Pressure washing – Pressure wash entire surface to remove any residues.
7. Scraping – Scrape surface then broom and blow surface clean.
8. Leveling – Flood courts with water to test for ponding, any areas still retaining water 1/8" deep after 20 minutes should be leveled with World Class Court Patch Binder.
9. Cracking – Vee out any cracks and fill with World Class crack filler

**B. Asphalt**

1. Sub base, by others, Part 1.1c-2b – To be trimmed smooth and compacted to a field dry density of not less than 95%.
2. Surface accuracy, by others, Part 1.1C-2b – Base asphalt surface to be laid to an accuracy of a maximum deviation of 1/8 inch beneath a 10-foot straight edge when measured in any direction.
3. Curing – New asphalt is to cure for 14-28 days prior to application of any Ultimate Cushion materials.
4. Pressure washing – Pressure wash entire surface to remove any residues.
5. Scraping – Scrape surface then broom and blow surface clean.
6. Leveling – Flood courts with water to test for ponding, any areas still retaining water 1/8" deep after 20 minutes should be leveled with World Class Court Patch Binder.
7. Cracking – Vee out any cracks and fill with World Class Crack Filler.

**C. Existing Acrylic Surface**

1. Pressure washing – Pressure wash entire surface to remove any residues
2. Scraping – Scrape surface then broom and blow surface clean.
3. Leveling – Flood courts with water to test for ponding, any areas still retaining water 1/8" deep after 20 minutes should be leveled with World Class Court Patch Binder.
4. Cracking - Vee out any cracks and fill with World Class Crack Filler.

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### **2.0 EXECUTION cont'd**

#### 2.2 Resilient Base and Coating Application

- A. A minimum of 2 kg./sq.m of specially graded 1-3mm SBR rubber granules shall be applied evenly per the manufacturer's recommendations. Then a minimum of 0.5 kg/sq.m of specially graded 1.5mm SBR granules shall be applied evenly over the larger SBR granules .
- B. A layer of 20-30 mesh dried silica sand is applied and then sealed with Marathon Base Mat Binder.
- C. Once surface has dried for 24 hours grind surface smooth using a low speed stone grinder.

#### 2.3 World Class Acrylic Application

- A. Once the base mat has dried for 24 hours apply 2 coats of World Class Acrylic Resurfacer.
- B. Ensure surface is smooth prior to applying colour coating.
- C. After final coat, textured line paint is to be used for all line marking.

### **3.0 GENERAL**

3.1 Upon completion, the contractor shall remove all containers, surplus materials and debris and leave the site in a clean and orderly condition acceptable to the owner. Gates shall be secured and all containers shall be disposed of in accordance with local regulations.

#### 3.2 Warranty

The contractor shall warranty all material and workmanship for a period of two years from the completion of the project against; peeling, surface cracking, blistering, fading, and excessive wear. The warranty will not cover damages as a result of base deficiencies