

**09620**

**CUSHIONED ATHLETIC RECREATIONAL SPORTS SURFACE**

**RUBBER, URETHANE, ACRYLIC COMPOSITE  
REBOUND ACE ECO CUSHION**

Note: Rebound Ace Sports Pty Ltd. cushioned athletic recreational sports surface.

Note: This section is based on cushioned athletic recreational sports surfaces, Rebound Ace, Manufactured by Rebound Ace Sports, Pty Ltd., Australia, Rebound Ace Sports Pty. Ltd., 15-21 Argon Street, Carole Park, Queensland 4300, Australia, Phone: 73271-3411, Fax: 73271-1852. Distributed and installed by Ace Surfaces NA, Inc., 409 Montgomery Rd., Suite. 145, Phone: (407) 865-6279, Fax: (407) 865-6289.

Note: Rebound Ace Sports Pty Ltd. manufactures a variety of cushioned athletic recreational sports surfaces for tennis, basketball and other sports.

Note: Recycled, post consumer content of the rubber is approximately 90%.

Note: All adhesives, urethanes and coatings are non-solvent based and low VOC compliant.

Note: Color coatings found in division 2, section 02790, are not suitable for cushioned surfaces.

Note: Section 09620 Cushioned Athletic Recreational Sports Surface. Copyright pending 1998 Ace Surfaces NA, Inc.

**PART 1 - SUMMARY**

**1.1 Section includes:**

- A. Cushioned athletic recreational sports surfacing having a finished thickness of 5mm (1/5") **Rebound Ace Eco Cushion**
- B. Provide labor, materials, tools and equipment to perform work and services of Rebound Ace cushion sports surface over concrete, asphalt or existing acrylic surfaces.
- C. Work not included:
  - 1. Sub-base materials
  - 2. Base materials
    - a. Concrete: Specified in Division 3
    - b. Asphalt: Specified in Division 2
    - c. 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 References**

- A. Rebound Ace have been extensively referenced in Australia and Germany. We are currently awaiting the ASTM equivalent references.

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**1.4 Submittals**

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturers descriptive literature for specified cushioned athletic recreational sports surface Rebound Ace.
- C. Shop Drawings, Dimensioned plans indicating layout of cushioned athletic recreational sports surface.
- D. Selection Samples: Two sets of color chips representing manufacturers full range of available color finishes to cushioned athletic recreation sports surfaces.
- E. Quality Assurance Submittals: Manufacturers printed installation instructions. Proprietary techniques are accepted.
- F. Closeout Submittals:
  - 1. Manufacturers recommendations for cleaning and maintaining flooring.
  - 2. Warranty documents specified in Warranty Article of Part 1 of this section.

**1.5 Quality Assurance**

- A. Qualifications
  - 1. Manufacturer: Minimum ten (10) years documented experience producing cushioned athletic recreational sports surfaces similar to those specified in this section.
    - a. Minimum ISO 9001 certification for design, manufacture and distribution.
    - b. Minimum ten (10) years documented use of cushioned athletic recreational sports surfaces by major sporting venues worldwide.
  - 2. Installer: Minimum five (5) years documented experience installing cushioned athletic recreational sports surfaces similar to those specified in this section.

**1.6 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 material from freezing, store on pallets in a cool place; never in the hot sun.
- C. Record batch numbers from delivered material and enter into Rebound Ace Warranty registration form.

**1.7 Project/Site Conditions**

- A. Existing conditions: Examine areas where materials are to be installed, particularly the sub-base, drainage, compaction and levelness.
- B. Ensure area to be surfaced is to be clear of any construction traffic, pedestrian traffic and any obstructions during application of Rebound Ace product.
- C. 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 same.

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- D. Approximately one 5 yard dumpster or trash container per 7000 sq. ft. near the area of installation and should be within easy access.
- E. Electricity (110V) and a supply of drinkable water has to be on hand during entire installation process.

**1.8 Warranty**

- A. Manufacturers Warranty: Manufacturers standard warranty against defects in products.
- B. Installers Warranty: Installers standard warranty against defective workmanship.

**PART 2 - PRODUCTS**

**2.1 Manufacturers**

- A. Acceptable Manufacturer:  
Rebound Ace Sports Pty. Ltd., 15-21 Argon Street, Carole Park, Queensland 4300, Australia  
Phone: 73271-3411, Fax: 73271-1852
- B. Acceptable Supplier/Distributor:  
Ace Surfaces NA, Inc., 409 Montgomery Rd., Suite. 145, Altamonte Springs, FL 32714  
Phone: (407) 865-6279, Fax: (407) 865-6289
- C. Substitutions: Not Permitted

**2.2 Cushioned Athletic Recreational Sports Surfaces**

- A. Characteristics: Site installed to size specifications. Cushioned product, when properly installed, will have the following characteristics:

Tensile Strength	2.82 N/mm <sup>2</sup>
Elongation at break	32.5%
Tear Strength	14.03 N/mm
Hardness	75-80 Shore A
Abrasion Resistance	Taber Abrader H22 wheel, 1kg load 1000 cycles 606 milligrams loss Topcoat intact
Resilience	85g ball drop 1m 25%
UV Radiation	Complies with requirements of DIN 18035/6.
Water Permeability	Impermeable
Flammability	Class 1 rating DIN 18035/6
Adhesion to Base	Under pad is wet laid in situ using a polyurethane primer. This provides for excellent adhesion.

- B. Surfacing: Rebound Ace 5 mm
  1. Composition: Recycled SBR Rubber, urethane, acrylic.
  2. Size: To specifications.
  3. Thickness: 4mm (Rubber mat), 5mm finished product.

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4. Weight: 1.0 lb./sq.ft.
5. Adhesion to base: Low VOC urethane compatible adhesive.
6. Interlaminaries:
  - a. Urethane – Water based urethane sealant.
  - b. Cushion Fillercoat - Acrylic resin emulsion.
7. Surface: Textured acrylic finish.
8. Linemaking: non-slip acrylic linemarking

Note: Insert color requirements in on of the following two sub-paragraphs.

Note: Colors may be selected from manufacturers 10 standard colors Light Green, Grass Green, Moss Green, Tan, Outback Clay, Terracotta, Dark Blue, Tour Purple, and Mid Grey.

Note: Custom colors are available, however minimum quantities apply.

9. Color: \_\_\_\_\_: with \_\_\_\_\_ on finish surface
10. Color: Custom Colors matching Architects sample

**PART 3 - EXECUTION**

**3.1 Examination**

- A. Check asphalt, concrete, and existing acrylic surfaces for spalling, depressions, cracking and surface irregularities, and adhesion of any existing acrylic surfaces or residues.
- B. Installers Examination
  1. 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
  2. Transmit two copies of installers report to architect or owner.
  3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
  4. Beginning construction activities of this section indicates installers' acceptance of conditions.

**3.2 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/Vapor Barrier, by others, Part. 1.1c-2a – Moisture/vapor barrier, consisting of polyethylene (6 mil. 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/vapor barrier nor any other object, which could puncture the barrier or otherwise compromise the integrity of the surface.
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 of any Rebound Ace Sports materials.
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

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minutes should be leveled with Plasticrete Surface Restorer.

9. Cracking - Vee out any cracks and fill with Sika Elastomeric Sealant.

**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 Rebound Ace Sports 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 Special M.
7. Cracking - Vee out any cracks and fill with Sika Elastomeric Sealant.

**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 Special M.
4. Cracking - Vee out any cracks and fill with Sika Elastomeric Sealant.

**3.3 Installation**

- A. Install cushioned athletic recreational sports surface in accordance with shop drawings and manufacturers written instructions.

**3.4 Protection**

- A. Protect installed products of this section from damage to function or finish by subsequent construction activities.
- B. Repair minor damage to finishes in accordance with manufacturers recommendations.

**3.5 Defective Work or Materials**

- A. Remove from the work site and replace material, which has deteriorated, or become contaminated in any way, prior to its application, at no additional expense to this Contract. Dispose of waste materials legally, off site.

**3.6 Maintenance**

Refer to Rebound Ace Manual for Maintenance and Repairs