

Playpave™ Bonded Rubber Mulch Rubber Safety Surfacing

Manufacturer Specification

Summary:

The scope of work includes the complete supply and installation of Playpave Bonded Rubber Mulch (BRM) playground safety surfacing, providing all labor, materials, equipment, and supervision required to deliver a fully integrated bonded rubber mulch system in accordance with project specifications and ASTM standards. Installation shall be performed exclusively by Playpave LLC or certified installers with demonstrated experience, ensuring compliance with impact attenuation, accessibility, durability, and safety performance requirements. The system consists of a seamless, porous bonded rubber mulch surface installed over approved substrates including compacted stone, asphalt, or concrete, prepared to proper drainage and compaction standards. Submittals include product data, shop drawings, samples, testing certifications, insurance documentation, and warranty information. The surfacing is designed to meet critical fall height requirements while providing slip resistance, permeability, and long-term performance. Playpave provides maintenance guidance, recommended periodic sealing, and a limited warranty covering materials and workmanship, contingent upon proper installation, maintenance, and adherence to manufacturer requirements, with final acceptance subject to inspection and documented compliance with all specified standards.

Part 1: General Specifications

1.1 Work Included

- Provide all labor, materials, equipment, and supervision necessary for the supply and installation of Playpave bonded rubber mulch safety surfacing as specified herein.
- Identify all areas of application and complete a fully integrated bonded rubber mulch safety surfacing system in accordance with these specifications.
- Scope of work includes, but is not limited to:
 - Surface Coverage: Resilient bonded rubber mulch rubber surfacing for playground use.
 - Supplementary Work: Coordination with playground equipment installation and preparation of a resilient surfacing sub-base.
 - Quality Assurance:
 - The manufacturer/installer shall have a minimum of two (2) years of experience producing and installing bonded rubber mulch playground safety surfacing.
 - All materials and installation methods shall comply with ASTM F1292 impact attenuation requirements.
 - Installation of the Playpave BRM system shall be performed by Playpave LLC or Playpave-certified installers only.

- Manufacturer installation procedures shall be submitted for review by the Architect and incorporated into the bid documents.

1.2 Submittals

- Product data for Playpave BRM safety surfacing, including installation procedures and maintenance instructions.
- Detailed shop drawings showing edge conditions, transitions, thicknesses, and cross-sections.
- Color palette illustrating available bonded rubber mulch color options.
- Material Safety Data Sheets (MSDS) for all system components.
- Sub-base preparation and drainage requirements.
- Details for transitions to adjacent materials and beveled edges.
- Warranty documentation outlining duration, exclusions, remedies, and compliance procedures.
- Declaration confirming adhesives are purpose-designed for playground safety surfacing.
- Third-party certification for testing at three temperature drops.
- Proof of General and Liability Insurance with minimum coverage of \$4,000,000.
- A minimum 3" x 3" physical sample of the surfacing system.

1.3 Definitions

- Bonded Rubber Mulch (BRM): Post consumer recycled rubber shredded mulch material composed from recycled tires with no unwanted characteristics including steel or fabric. Particles range from 3/8" to 2". Organically colored and tested for color retention via polyurethane blend.
- Aromatic Binder (MDI): A moisture-cured binder used to encapsulate BRM and SBR granules.
- Critical Fall Height (CFH): Maximum fall height for playground equipment as defined by ASTM F1292.
- PIP: Pour-in-Place rubber surfacing (also known as wet-pour).
- GMAX: Measurement of surface hardness related to impact attenuation.

1.4 Quality Assurance

A. Applicable Standards

Playpave bonded rubber mulch surfacing shall meet or exceed the following:

- Impact Attenuation: ASTM F1292 / CPSC
 - Maximum peak deceleration: ≤ 200 g
 - Head Injury Criterion (HIC): ≤ 1000
- Coefficient of Friction: ASTM D2047
- Slip Resistance: ASTM E303

Playpave LLC.
PO Box 184 Rockville Centre, NY 11570
Phone: 1-603-800-6716
Web: www.playpave.com



- Permeability: ASTM D2047
- Flammability: ASTM D2859
- Accessibility: ASTM F1951
- Tear Strength: ASTM D624
- Tensile Strength: ASTM D412

B. Installer Qualifications

- Installation shall be completed exclusively by Playpave LLC. or Playpave-certified installers.
- Installation crew shall include at least one certified installer with a minimum of five full seasons of experience installing Playpave systems.

C. Contractor Pre-Qualifications

- Submission of a portfolio with ten (10) comparable projects, including contact references.
- At least five (5) projects must be over five years old.
- Projects should demonstrate similar complexity, including graphics and color transitions.
- Submission of MSDS and product data sheets.
- Proof of minimum \$3,000,000 General Liability Insurance.

1.5 Warranty

- Playpave LLC. shall provide a written warranty to the Owner covering defects in materials and workmanship of the rubber surfacing system for a period of two (2) years from the date of Substantial Completion.
- The warranty shall cover normal wear and tear associated with standard use of the surface. The warranty shall expressly exclude damage resulting from vandalism, punctures caused by high-heeled footwear or sharp objects, acts of war, or acts of God and other events beyond the reasonable control of the Owner or Playpave LLC.
- Warranty remedies shall be limited solely to the repair or replacement of the defective areas, at Playpave LLC's discretion. Such remedies shall include the provision of all necessary materials, labor, and reasonable transportation costs required to complete the corrective work. The warranty shall not extend to consequential or incidental damages unless otherwise required by law.
- Playpave LLC. shall provide instruction to the Owner's designated personnel regarding proper maintenance procedures and minor repair methods for the Playpave bonded rubber mulch system to ensure continued performance and longevity.
- All warranties, whether expressed or implied, shall be contingent upon the following conditions:
 - Installation of the safety surfacing system must be performed exclusively by Playpave LLC.
 - The Owner shall, at their sole expense, have a Playpave Sealer maintenance

application performed at two (2) year intervals commencing from the date of Substantial Completion.

- The Owner shall remit full payment of all applicable invoices and comply with all prescribed maintenance requirements and care procedures as outlined by Playpave LLC.
- Failure to meet these conditions may render the warranty null and void.

1.6 Maintenance

- Playpave shall provide maintenance and care instructions to the Owner.
- Include cleaning procedures, inspection schedules, and repair methods.
- Playpave Sealer (or approved equivalent) recommended every two (2) years.
- The surface shall be kept free of debris to extend lifespan.

Part 2: Bonded Rubber Mulch Material Specifications

2.1 System Description

- Playpave BRM safety surfacing is a seamless bonded rubber mulch rubber system consisting of a single layer of Bonded Rubber Mulch and a moisture-cured aromatic polyurethane binder.
- This system is porous, slip-resistant, and installed at variable thicknesses to meet CFH requirements.
- 4' CFH - 2", 5' CFH - 2.25", 6' CFH - 2.75", 7' CFH - 3.5", 8' CFH - 4", 9' CFH - 4.5", 10' CFH - 5"
- Compatible substrates include concrete, asphalt, and compacted stone.

2.2 Physical Properties

BRM

- Angular or buffings cut
- Post consumer 100% recycled rubber
- Colors: Red, Yellow, Brown, Cypress, Black, Green
- Moisture <1%
- Free of metal and fiber contaminants

Binder

- Single-component moisture-cure polyurethane
- Aromatic

Playpave LLC.
PO Box 184 Rockville Centre, NY 11570
Phone: 1-603-800-6716
Web: www.playpave.com



- Installation temperature >41°F
- Non-pigmented (clear or amber)
- Cure time: 6–8 hours at 77°F

2.3 Safety & Environmental Compliance

- Colour tinted binder is not permitted
- PFA Free
- Latex free binder and granules
- Non-toxic once cured
- No TDI binders with filler minerals permitted

Part 3: Site Preparation and Base

3.1 Site Conditions

- Substrate must be dry, clean, and free of debris.
- Installation shall not proceed during rain or unsuitable weather.
- Playpave reserves the right to adjust installation schedule based on conditions.
- Installation occurs after playground equipment placement unless noted.

3.2 Base Construction

- Owner or GC responsible for sub-base preparation per Playpave guidelines.
- Acceptable bases: compacted stone, concrete, or asphalt.
- Minimum slope: 2%
- Asphalt cure: 21 days
- Concrete cure: 30 days
- Granular base: 4–6 inches at 95% compaction
- Surface preparation may include scarifying or etching

Part 4: Execution and Installation

4.1 Surface Installation

Primer

- Apply urethane primer at 200–250 sq ft/gal.
- Prime immediately prior to rubber installation on fixtures and perimeter.

Playpave LLC.
PO Box 184 Rockville Centre, NY 11570
Phone: 1-603-800-6716
Web: www.playpave.com



BRM Single Layer

- Mix on-site per manufacturer guidelines.
- No less than 1.75" thickness, with thickness based on CFH
- Binder ratio: 20% by weight.
- Trowel to specified depth and cure 24 hours.

Foot traffic damage is excluded from warranty unless security and fencing is provided by Playpave.

4.2 Site Requirements

- Site access for installation equipment required.
- Owner/GC responsible for overnight security.
- Optional fencing available at additional cost.
- Site to be left clean and free of debris.

4.3 Final Acceptance

- Final inspection to confirm compliance with all specifications and standards.
- Submission of final documentation and compliance report required.

This outline should be tailored to the specific needs of the project, taking into account local regulations, environmental conditions, and user requirements.

Collaboration with a professional experienced in PIP rubber surfacing is recommended to ensure that all technical details are adequately addressed.

**For individual project specifications or other information including Critical Fall Height requirements please contact Playpave LLC. 1-(603) 800 6716
office@playpave.com**