



Bonded Rubber Architectural Specification

Part 1 General

- 1.01 Description
Provide all materials, installation details, labor, and equipment required to properly install the Kinetic Play Surfaces Bonded Rubber system
- 1.02 Quality Assurance
 - A. Qualifications
 - 1. The Kinetic Play Surface Bonded Rubber shall be warranted by Kinetic Play Surface for any defects in materials and workmanship for a minimum Five (5) years from the date of completion.
 - B. Design and Detailing
 - 1. The Kinetic Play Surface Bonded Rubber is utilized when an impact absorbing surface is required within the use zone of the playground equipment. Each system is engineered to meet Kinetic, ASTM F 1292 Impact Attenuation and ASTM F 1951 wheel chair mobility criteria.
 - 2. Substrate over which Kinetic Play Surface may be installed includes concrete, asphalt and compacted aggregate.
 - 3. All other substrates must be approved by Kinetic Play Surface prior to installation
 - 4. The installer shall verify that all proposed substrates meet the requirements for the installations of the Kinetic Play Surface system with regard to structural performance.
- 1.03 Submittals
 - A. Product Data, testing and warranty
- 1.04 Delivery and Storage
 - A. Protect materials from weather.
 - B. Remove and discard empty containers in accordance with local ordinances.
- 1.05 Installation Limitations
 - A. Air temperature shall be > 35 oF (2 oC) Installation shall not commence when rain is imminent.
- 1.06 Alternates
 - A. Or equals shall be approved by the project architect prior to bid date.

Part II Products

- 2.01 General: No substitution of other materials shall be permitted.
- 2.02 Thickness System Thickness Critical Height
 - 1. 1.5 inches 4 feet
 - 2. 2.0 inches 5 feet
 - 3. 2.5 inches 6 feet
 - 4. 3.0 inches 7 feet
 - 5. 4.0 inches 8 feet

- 2.03 Materials
 - A. Primer: A single component, moisture cured polyurethane.
 - B. Binder: A MDI based, elastomeric, polyurethane pre-polymer with low order and exceptional weathering and binding attributes.
 - C. SBR Black base layer
 - 1. Recycled SBR rubber buffing
 - 2. 3/8" sieve with < 4% dust (6-16 mesh)
 - 3. Containment Bags shall provide ample moisture protection
 - E. Bonded Rubber System
 - 1. Independently tested to ASTM F1292 standards for head injury criteria.
 - 2. Slip resistant in wet and dry conditions
 - 3. Abrasion resistant
 - 4. Fire Retardant
 - 5. Fungal resistant
 - 6. Resistance to weathering and aging
 - 7. Complies with ADA accessibility standards
- 2.03 Mixing and Preparation
 - A. Binder/SBR and mix ratios shall be determined by the specified system (see Product Data Sheet application rates).

Part III Execution

- 3.01 Inspection
 - A. Before applying Kinetic Play Surface Bonded Rubber, installer will evaluate the substrate and site conditions. No work will commence until discrepancies are corrected.
- 3.02 Bonded Rubber System
 - A. Primer: when required apply primer using a 3/8" nap roller at a rate 300 sf/gallon. Do not apply over crush stone base. Prime all vertical interfaces of curbs, etc.
 - B. SBR base layer
 - 1. Binder to rubber ratio shall be 14/86 (16 %) by weight to achieve proper resiliency.
 - 2. Mix binder and SBR rubber in a paddle type mixer for 1 to 2 minutes or until rubber particle is encapsulated.
 - 3. Spread this mix to the desirable thickness using a screed bar.
 - 4. Using a steel trowel uniformly compact the mix. Periodically lubricate the trowel with mineral spirits as work progresses. Do not saturate the rubber surface with cutting agents.

NOTICE: These specifications are merely guides for use by Landscape Architects, engineers, contractors. It is hoped that these specifications will be of particular value to those who do not have detail knowledge of synthetic safety flooring and that it will aid in maintaining high construction standards. Kinetic, its agents and employees do not warrant the specifications as proper under all conditions.