

SpectraTurf Bonded Rubber Mulch Specification

SpectraTurf
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PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: SpectraTurf Bonded Rubber Mulch Surfacing System.

B. Related Sections: Project drawings and general provisions of the Contract; including General, Supplementary, and Special Conditions, and Division 1 Specifications, apply to this contract.

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
2. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.
3. International Play Equipment Manufacturers Association (IPEMA) certified

1.03 SYSTEM DESCRIPTION

A. Performance Requirements: Provide a single layer rubber-urethane playground surfacing system which has been designed, manufactured and installed to meet the following criteria:

1. Shock Attenuation (ASTM F1292):
 - a. Gmax: Less than 200.
 - b. Head Injury Criteria (HIC): Less than 1000.
2. Accessibility: Comply with requirements of ASTM F1951.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Verification Samples: Submit manufacturer's standard verification samples of 6" x 6" minimum.

D. Quality Assurance/Control Submittals: Submit the following:

1. Certificate of qualifications of the playground surfacing installer.

E. Closeout Submittals: Submit the following:

1. Warranty documents as specified herein.

1.05 QUALITY ASSURANCE

A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system or a direct employee of the manufacturer's installation division, having experience with other projects of the scope and scale of the work described in this section.

B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.

C. International Play Equipment Manufacturers Association (IPEMA) certified

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

1.07 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 95 degrees F (32 degrees C). Exception to the temperature requirements can be made by the manufacturer of the surfacing system. Do not install in steady or heavy rain.

1.08 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Proper drainage is critical to the longevity of the SpectraTurf Bonded Rubber Mulch surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

1. Warranty Period: Five (5) years from date of completion of work.

PART 2 PRODUCTS

2.01 SPECTRATURF RUBBER MULCH PLAYGROUND SURFACING SYSTEM

A. Manufacturer: SpectraTurf

1. Contact: 555 South Promenade Avenue, #103, Corona, CA 92879;
Telephone: (800) 875-5788; Fax: (951) 734-3630;
E-mail: info@spectraturf.com website: <http://www.spectraturf.com>.

B. Proprietary Products/Systems. SpectraTurf Bonded Rubber Mulch surfacing system, including the following:

1. SpectraTurf Bonded Rubber Mulch Primer:

a. Material: Manufacturers Standard Urethane Primer

2. SpectraTurf Bonded Rubber Mulch:

a. Material: 100% recycled blend of shredded SBR (styrene butadiene rubber) and urethane.

b. Playground equipment determines the required system thickness, and the system thickness may be different at various locations on the playground site. Depending on current ASTM F1292 requirements for critical fall height (6'), select system thickness from options provided (3").

1. Rubber Mulch Thickness: 3" (IPEMA Certified for a max. critical fall height of 6'-0")

c. Colors: [Earthtone] [Redwood] [Forest Green] [Cypress] [Caribbean Blue] [Black]

d. Binder: Aromatic or Aliphatic Resin. No filler materials shall be used in urethane such as plasticizers and the catalyzing agent shall contain no heavy metals. No Toluene Diphenyl Isocyanate (TDI) shall be used.

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

2.03 MIXES

A. Required mix proportions by weight:

1. Rubber Mulch: 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the playground surfacing manufacturer.

3.02 EXAMINATION

A. Substrate preparation must be in accordance with surfacing manufacturer's specification. New asphalt must be fully cured – up to 30 days. New concrete must be fully cured – up to 7 days.

B. Proper drainage is critical to the longevity of the SpectraTurf Bonded Rubber Mulch surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

3.03 PREPARATION

A. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal.

3.04 INSTALLATION

A. Do not proceed with surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.

B. Surfacing Installation:

1. Using screeds and hand trowels, install the surfacing to the specified thickness.

2. Allow surfacing to cure for sufficient time so that indentations are not left in the surfacing from applicator foot traffic or equipment.

3. Do not allow foot traffic or use of the surfacing until it is sufficiently cured.

C. Primer Application: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal (7.5 m²/L).

D. Top Surface Installation:

1. Using a hand trowel, install surfacing at a consistent nominal thickness as required for critical fall heights.
2. Allow surfacing to cure for a minimum of 48 hours for aromatic resin / 72 hours for aliphatic resin.
3. At the end of the minimum curing period, verify that the surfacing is sufficiently dry and firm to allow foot traffic and use without damage to the surface.
4. Do not allow foot traffic or use of the surfacing until it is sufficiently cured.

3.05 PROTECTION

A. Protect the installed playground surface from damage resulting from subsequent construction activity on the site.