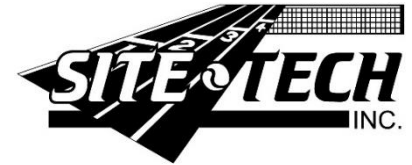


# **SITE TECHNOLOGY, INC.**

**786 Seasons Road, Stow, Ohio 44224**

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## **CONSTRUCTION SPECIFICATIONS SITE-FLEX RS**

### **LATEX-BOUND RUBBERIZED TRACK SURFACE SYSTEM, ALL-WEATHER**

#### **1.0 GENERAL**

##### **1.1 DESCRIPTION**

Resilient surface system which consists of rubber granules and/or strands incorporated and bound together by latex emulsion binding agents. Dry rubber is installed and sprayed with latex and applied in multiple layers to achieve desired thickness (typically 3/8" or 1/2") or as specified by the owner/architect. The finished surface provides a tough, durable resilient layer that can withstand spike punishment and wear under all climatic conditions.

##### **1.2 SAFETY PRACTICES**

Construction should be done with due regard to use of equipment and procedures designed to minimize danger to personnel and materials. Site Technology, Inc. provides Safety Practice Recommendations for consideration when constructing the SITE-FLEX RS, LATEX-BOUND RUBBERIZED TRACK SURFACE SYSTEM.

##### **1.3 RELATED WORK**

###### **A. DRAINAGE**

Special attention to proper drainage of the subgrade and surrounding area is of the utmost importance in construction of a track. A suitable surface and/or subsurface drainage system shall be installed in accordance with the specifications and design for local soil and climatic conditions under the direction of a qualified engineer or consultant.

###### **B. SITE PREPARATION & CRUSHED STONE BASE**

Upon a stable and frost-free subgrade that is well compacted and drained, apply 6" to 8" of crushed limestone or gravel to the grade and contour proposed; installed in accordance with the engineer's specifications and guidelines. Thickness of stone may vary in different parts of the country due to soil and climate conditions.

###### **C. ASPHALT BASE COURSE**

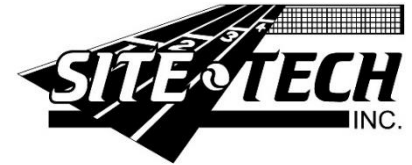
Upon the prepared stone base course, a 2" layer of asphalt binder course mix shall be laid in accordance with proposed grade, contour and elevation. The asphalt mix shall utilize a 3/4" coarse aggregate material. Application shall conform to appropriate state specifications for asphalt.

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## **D. ASPHALT LEVELING COURSE**

An additional 1-1/2" leveling course of asphalt shall be applied in accordance with proposed grade, contour and elevations. Maximum size aggregate shall not exceed 3/8". The final asphalt surface when completed may be flooded with water by the asphalt contractor with the surfacing contractor on-site to determine if any bird baths or low areas exist. Any areas found not to be in conformance with the above requirements shall be repaired by the asphalt contractor and approved by surfacing contractor. All newly installed asphalt sections must be allowed to cure properly prior to any application of the synthetic surfacing. Any and all surface patching materials must be compatible materials as approved by the surfacing manufacturer.

## **E. PREPARATION**

**NEW ASPHALT:** Shall have a minimum of 14 days curing time prior to installing the Site-Flex surfacing system.

**OLD ASPHALT OR EXISTING LATEX RUBBERIZED TRACK:** Shall be prepared in strict accordance with recommended preparation procedures for old pavements as approved by Site Technology, Inc. and in compliance with the specifications set forth.

## **2.0 PRODUCTS**

### **2.1 MATERIALS**

Latex-emulsion binding agent  
SBR rubber granules and/or strands  
Latex UV resistant additive (black)

### **2.2 SITE-FLEX RS SURFACING SYSTEM**

**A. SYNTHETIC RUBBER:** Styrene-butadiene rubber (SBR) granules and rubber strands containing less than 4% dust retained on the #30 ASTM sieve conforming to the following sizes:

5-7mm or 3-6mm granules  
2-4 mm or 1-3mm granules  
1-3mm or 1/4" strands

**B. BINDING AGENTS:** Carboxylated SBR latex with minimum of 50% solids content.

**C. WATER:** Potable

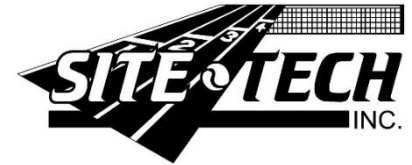
**D. LANE MARKING PAINT:** Exterior grade acrylic latex.

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## **3.0 EXECUTION**

### **3.1 FIRST LAYER**

As necessary, install one spray application of latex binder (tack spray) as a primer layer using specialized pressure spray equipment. Allow to cure for 12 – 15 hours, or when latex is dry.

3-6mm or 5-7mm rubber granules shall be spread dry over asphalt base/tack spray by means of straight edged tools or mechanically at a uniform rate of 1.5 lbs per sq. yd. Latex binder shall be pressure spray applied uniformly at the rate of 0.13 gal per sq. yd. over the complete layer of rubber. Pump pressure must be at least 45 lbs. Allow to cure 12 to 15 hours, or when the latex has completely dried. For 1/2” or thicker surfacing, repeat this layer as needed to achieve proper thickness.

### **3.2 SECOND LAYER**

2-4mm or 1-3mm rubber granules shall be spread in the same manner at the approximate rate of 2.75 lbs per sq. yd. The second layer shall be further saturated with latex binder at the rate of 0.17 – 0.18 gal per sq. yd. using pressure spray equipment. Allow to cure for 12 – 15 hours, or when latex is dry.

### **3.3 THIRD LAYER**

2-4mm or 1-3mm rubber granules shall be spread in the same manner at the approximate rate of 2.75 lbs per sq. yd. The third layer shall be further saturated with latex binder at the rate of 0.17 – 0.18 gal per sq. yd. using pressure spray equipment. Allow to cure for 12 – 15 hours, or when latex is dry.

### **3.4 FOURTH / FIFTH AND FINAL LAYER**

1-3 mm rubber granules or 1/4” rubber strands shall be spread by straight edged tools in a uniform manner at the approximate rate of 3.0 lbs per sq. yd. These layers shall be saturated with latex binder mixed with UV resistant additive at a rate of 0.18 gal per sq. yd. The UV resistant additive shall be added to the latex binder prior to spraying at the rate of one gallon per 100 gal of pure latex binder. Allow to cure for 12 – 15 hours, or when latex is dry.

### **3.5 ULTRA-VIOLET PROTECTIVE COAT**

The UV resistant black dye additive shall be added to the final two spray coats for additional ultra-violet protection. A final spray coat shall be applied by means of pressurized spray injection process over the complete track at the rate of 0.08 – 0.10 gal per sq. yd. The UV resistant additive shall be added to the latex binder prior to spraying at the rate of one gallon per 100 gal of pure latex binder. Allow to cure for 24 hours minimum.

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### **3.6 LANE LINES AND EVENT MARKINGS**

Allow previously installed materials to properly cure for a minimum of 48 hours before any striping. All lane lines and event markings shall be calculated, laid out, and installed by either a certified licensed engineer, or qualified track striping specialist, whichever necessary. All track events shall conform with the current OHSAA, NFSHSA, IAAF, NCAA or dictating recommended standards. Use exterior grade acrylic-latex paint for all lines and event markings. Include three-foot numbers, label all events and use recommended colors. Upon completion, at the discretion of the owner, the contractor may be required to submit a Certificate of Accuracy certifying that the track markings are correct and within the standard tolerances for those events. Allow lane lines and event markings to cure for a minimum of 24 hours.

### **3.7 GENERAL LIMITATIONS**

No phase of this construction shall take place unless both ambient and material temperatures are above 50 degrees Fahrenheit nor when rain is imminent (30% or greater forecasted rain) or falling, nor when other conditions are obviously unsuitable (rain in forecast). The facilities including all areas nearby, inside, or adjacent to the track shall not be used for any reason during this construction. After completion, the facilities should not be used for a minimum period of seven days after completion of all Site-Flex surface system constructed pursuant to the specifications. No heavy equipment or vehicles should be allowed on the surface. Protective crossing and cheerleader mats are required.