



## SYNTHETIC TRACK SURFACING- REKORTAN® WBS BSS SPECIFICATION

### PART 1- GENERAL

#### 1.01 SUMMARY

A. The contract work to be performed under this section consists of furnishing all required labor, materials, equipment, implements, parts and supplies necessary for the surfacing in accordance with these specifications indicated on the drawings.

1. Rekortan® WBS BSS –A 13 mm, World Athletics certified, polyurethane bound, layered, impermeable running track surface with an aliphatic, water-based structural spray finish.

#### 1.02 CODES AND STANDARDS

A. Codes and standards follow the current guidelines set forth by the World Athletics (WA), the National Collegiate Athletic Association (NCAA) or the National Federation of State High School Associations (NFHS).

#### 1.03 SUBMITTALS AND SUBSTITUTIONS

A. Request for deviations or substitutions from the specifications must be made in writing seven days prior to the bid date. Complete product data including specifications, application rates, mixing instructions and a sample shall be sent with the request to the District and/or its agent for an evaluation. Alternatives will be allowed only by addendum.

1. Submit a set of manufacturer's product data sheets including installation guidelines and maintenance guidelines.
2. Submit a track sample that is representative of the product being installed.
3. Submit Safety Data Sheets (SDS) for all individual components of the system to be installed.

#### 1.04 QUALITY ASSURANCE

- A. The track surface installer shall be authorized by Manufacturer and possess a minimum of five (5) years' experience installing Rekortan® systems.
- B. The supervisor of the installing company must have five (5) years' experience surfacing Rekortan® systems and must have installed a minimum of ten (10) World Athletics approved track systems within the last three (3) years.
- C. The manufacturer must offer a minimum of four (4) World Athletics certified track systems.
- D. Submit evidence that the synthetic surfacing contractor is a member of the American Sports Builders Association (ASBA).
- E. All material components must be procured from manufacturer, a single source. No substitutes allowed without written approval from manufacturer.
- F. **All polyurethanes used must be manufactured by an ISO 9001 and ISO 14001 Certified Company. Manufacturer's ISO 9001 and ISO 14001 certificate must accompany bid.**



### **1.05 SITE CONDITIONS**

- A. Weather: Surfacing shall not begin if rain is imminent, if gusting winds are occurring or when the threat of freezing exists within 24 hours.
- B. Site: During any surfacing and striping, sprinkler systems must be shut off or controlled so that no water falls on the track or event area surfaces. Other trades and school district personnel must stay off the wet or curing surface.
- C. Only mix and apply when meeting manufactures recommended guidelines.
- D. The General Contractor shall provide temporary barriers as required to prevent public entry to construction area and to protect adjacent properties from damage during construction operation.

### **1.06 WARRANTY**

- A. Provide manufacturers standard five (5) year warranty.

## **PART 2- PRODUCTS**

### **2.01 SUPPLIER**

Advanced Polymer Technology  
109 Conica Lane / PO Box 160  
Harmony, PA 16037  
724-452-1330

### **2.02 MATERIALS**

- A. Rekortan® WBS BSS - A 13mm, impermeable spray coat track system. The first layer consists of a black mat of rubber granules bound in Rekortan® polyurethane. The second layer is a seal coat using Rekortan® two-component polyurethane and EPDM powdered rubber dust. The surface layer is a pigmented aliphatic water-based polyurethane and rubber granules spray applied to provide a structural topcoat.

Materials include:

1. Primer
2. Black Rubber
3. Rekortan® Polyurethane Binder
4. EPDM Powdered Rubber
5. Two Component Rekortan® Polyurethane
6. Rubber graded to .5-1.5mm or .5-2mm
7. One Component Aliphatic, Water-Based Rekortan® Structural Spray

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. The General Contractor shall verify that all asphalt/ concrete paving meets all dimensional accuracy, strength, and compaction. Notify owner of any deficiencies. Recommended compaction of asphalt and sub base is 95%.



- B. The General Contractor shall verify that all concrete work meets all required tolerances and notify the owner of any deficiencies. No curing compounds are allowed. The manufacturer requires that a proven heavy duty vapor barrier be installed under the concrete slab. The completed concrete substrate shall meet the industry tolerance standards of levelness ~ 1/8 in 10', and in addition, it shall meet the RH (Relative Humidity) standard level of dryness of 75% RH or less.

The completed/ cured slab shall be tested and verified to meet standards. If concrete substrate tests over 75% RH, then to protect against vapor drive/ moisture issues, the concrete shall be shot blasted and a moisture mitigation must be applied.

- C. Upon completion of paving, it is the responsibility of the paving contractor to water flood the surface with the use of a water truck. If after 30 minutes on a 70° F day, "bird bathes" are evident in a depth more than 1/8" the paving contractor, track surfacing contractor and the owner's representative will determine the best method of correction.
- D. Entire surface shall be clean and free of all dirt, oil, grease or any other foreign residue. It is the responsibility of the General Contractor to ensure that the surface is thoroughly clean in all areas of the new and/or existing asphalt or concrete base as necessary to ensure adhesion of the track surface.
- E. Minimum curing time for base prior to beginning of surfacing is 14 days for new asphalt paving and 28 days for new concrete. No concrete curing compounds are allowed.

### **3.02 PRODUCT AND MATERIAL DESCRIPTION**

- A. Rekortan® WBS BSS - A 13 mm, impermeable paved mat with a structural spray finish. Its base layer consists of a black mat of rubber granules bond in a Rekortan® polyurethane binder that is sealed using a two-component Rekortan® polyurethane and EPDM powdered rubber. The top layer is a mixture of colored Rekortan® one component, aliphatic, water-based coating and colored EPDM rubber that is structurally sprayed onto the base to form a textured finish.
- B. Primer: Proper Rekortan® Primer to be used based on substrate (concrete or asphalt).
- C. Base mat Rubber: The base mat rubber shall be specifically graded. It is to be dry and in sealed bags.
- D. Polyurethane Binder: The base mat shall be bound by a moisture-cured, Rekortan® polyurethane compatible with the base mat rubber. No asphaltic emulsions or epoxies are allowed in the base mat. Install the base mat with a specially designed track-paving machine to an average depth of 11 mm. No machine sprayed base mat systems will be allowed.
- E. Powder Rubber: The base mat will be sealed off using powdered rubber mixed with two component Rekortan® Structural Spray.
- F. Two-Component Polyurethane: The seal layer shall be made from a two- component Rekortan® full pour polyurethane.



- G. Rubber: Manufacture approved rubber graded to .5-1.5mm or .5-2mm. It is to be dry and in sealed bags.
- H. One Component Aliphatic, Water-based Structural Spray: The sealed base mat shall be coated by a pigmented, one component, aliphatic, water-based Rekortan® polyurethane structural spray.

### **3.03 APPLICATION PROCEDURES**

- A. The entire asphalt or concrete track surface shall be clean and free of dirt, oil, grease or any other residue upon arrival of the installation team. Any dirt, etc. shall be pressure washed off the base by the general contractor.
- B. Prime entire surface area with a compatible Rekortan® polyurethane primer. Mask and protect adjacent structures, as required. Primer shall dry to a tack- free condition prior to beginning next application. Do not allow primed surface to become contaminated by rain, dust, debris, etc.
- C. Mix the binder and granules until all rubber is thoroughly coated transport onto to the track and apply using a paving machine that is specifically designed for this type of application. Apply to an average of 11 mm thickness.
- D. Mix the two component Rekortan® polyurethane and powdered rubber into a thixotropic mixture and apply to the base mat by means of spreading the material with a rubber squeegee to seal off the mat.
- E. Top Layer: After the seal layer has cured, mix the aliphatic, water- based structural spray and rubber until thoroughly coated. The mixture should be sprayed in two separate applications. Apply the second coat, in an opposite direction as to the first. Apply specified amounts to achieve proper coverage.

### **3.04 STRIPING**

- A. All line marking paint shall be compatible and approved for the synthetic surfacing. Only an experienced track striping specialist shall perform the striping.

**END OF SPECIFICATION – REKORTAN® WBS BSS SYSTEM**