



SYNTHETIC TRACK SURFACING - REKORTAN® M 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® M – A 14 mm Polyurethane bound layered impermeable running track surface with embedded EPDM 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 the 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 surfacing 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 Associations (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® M Running Track Surface - A 14 mm Polyurethane bound layered impermeable running track surface with embedded EPDM finish. Its base layer consists of a black mat of SBR rubber granules bound in Qualipur polyurethane. The second layer is a seal coat using Rekortan two-component polyurethane resin. The surface layer is made up of colored EPDM rubber granules cast into a two-component Rekortan polyurethane flood coat.

Materials include:

1. Primer
2. Black Rubber
3. Rekortan® Polyurethane Binder
4. Manufacture approved EPDM Rubber ~ graded to meet specification
5. Two Component Rekortan® Full Pour Polyurethane
6. Manufacture approved EPDM Rubber ~ graded to meet specification

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 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® M Running Track Surface - A 14 mm Polyurethane bound layered impermeable running track surface with embedded EPDM finish. Its base layer consists of a black mat of SBR rubber granules bond in a Rekortan polyurethane. This layer is then sealed using a two-component Qualipur polyurethane and EPDM powdered rubber. The top layer is made up of colored EPDM rubber granules cast into a Qualipur full pour polyurethane flood coat.
- B. Rubber (SBR Black): The basemat rubber shall be specifically graded Styrene Butadiene Rubber (SBR). SBR is to be dried to no less than 2.5% moisture and sealed in bags.
- C. Polyurethane Binder: The basemat shall be bound by a moisture-cured liquid Rekortan® polyurethane, compatible with the basemat rubber. No asphaltic emulsions or epoxies are allowed in the basemat. The basemat is to be installed with a specially designed track-paving machine to an average depth of 10 mm. No machine sprayed basemat systems will be allowed.
- D. Two Component Full Pour Polyurethane: The full pour layer polyurethane and seal layer shall be a two component Rekortan® polyurethane with no solvents or fillers added.
- E. EPDM Powder Rubber: The basemat will be sealed off using MELOS or an approved equal powdered rubber mixed with two component Rekortan® full pour polyurethane.
- F. Colored Rubber (EPDM Broadcast): Must be Melos EPDM rubber or an approved equal. Unless specified, black rubber is not allowed in the wearing course. Color: Red unless otherwise specified.



3.03 APPLICATION PROCEDURES

- A. The entire 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, but no longer than 24 hours, before application of the base mat.
- C. Mix the binder and rubber 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 the specified thickness.
- D. Mix the two component Rekortan® polyurethane resin and EPDM powder into a thixotropic mixture and applied to the basemat by means of spreading the material with a rubber squeegee to seal off the mat.
- E. Top Layer: After the seal layer has cured or is tack-free but no longer than 24 hours, Mix the Rekortan® coating and apply using a notched trowel or squeegee, to achieve an even wet coat. Broadcast to excess with colored EPDM granules, using a flat shovel or machine spreader ensuring all of the coating is covered.
- F. Allow top layer to cure, and reclaim all excess rubber by means of a mechanical sweeper.

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 line striping.

END OF SPECIFICATION- REKORTAN® M