

The logo for Spartan, featuring the word "Spartan" in a stylized, italicized font with a registered trademark symbol.The logo for APT, featuring three interlocking hexagons above the letters "APT" and the slogan "POWERED BY SPEED." below it.

SYNTHETIC TRACK SURFACING - REKORTAN® M SPECIFICATION (formerly Spartan® BV)

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 International Associations of Athletics Federations (IAAF), 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 three (3) sets of manufacturer's product data sheets including installation guidelines and maintenance guidelines.
 - 2. Submit three (3) representative track samples in the color of surfacing to be installed.
 - 3. Submit Material Safety Data Sheets (MSDS) or 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 APT (Manufacturer) and possess a minimum of ten (10) years' experience installing the specified system.
- B. The supervisor of the installing company must have ten (10) years' experience in surfacing with the specified polyurethane system. A letter of certification must accompany the bid proposal.
- C. The supervisor, of the installing company, must have installed a minimum of ten (10) IAAF certified track systems, within the last three (3) years. A letter of certification from the manufacturer must accompany the bid proposal.
- D. The manufacturer (APT) must represent a minimum of four (4) IAAF track systems.
- E. All material components must be procured and manufactured from APT, a single source. No substitutes allowed.
- F. **All polyurethanes used must be manufactured by APT 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.



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1.06 WARRANTY

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

PART 2- PRODUCTS

2.01 SUPPLIER

- A. 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 Qualipur two-component polyurethane and EPDM powdered rubber dust. The surface layer is made up of colored EPDM rubber granules cast into a two-component Qualipur polyurethane floor coat.

Materials include:

1. Qualipur Polyurethane primer
2. SBR Black Rubber
3. Qualipur Polyurethane Binder
4. Melos EPDM Powder Rubber
5. Two Component Qualipur Full Pour Polyurethane
6. Melos EPDM Broadcast Rubber



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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. GC shall verify that all concrete work meets all required tolerances. Notify owner of any deficiencies.
- 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.
- F. Beginning installation stipulates track installer “accepts” existing conditions. Adhesion to the existing surfacing contractor’s responsibility.

3.02 PRODUCT AND MATERIAL DESCRIPTION

- A. Spurtan® BV 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 Qualipur 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.




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- C. Polyurethane Binder: The basemat shall be bound by a moisture-cured liquid Qualipur 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 Pour Polyurethane: The full pour layer polyurethane and seal layer shall be a two component Qualipur polyurethane with no solvents or fillers added. The specified products are Qualipur 5050 (A & B).
 - E. EPDM Powder Rubber: The basemat will be sealed off using Melos powdered rubber mixed with two component Qualipur full pour polyurethane.
 - F. Colored Rubber (EPDM Broadcast): Must be Melos rubber. Unless specified, black rubber is not allowed in the wearing course. Color: Red unless otherwise specified.

3.03 APPLICATIONS 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 Qualipur 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. The consumption rate is 0.29 lbs/sy (0.16 kgs/sm).
- 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. For a 11 mm mat the consumption is 14.94 lbs/sy (8.11 kgs/sm) of SBR rubber and 3.52 lbs/sy (1.91 kgs/sm) Qualipur binder. Apply to the specified thickness.
- D. Mix the two component Qualipur 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. The consumption rate of the two component Qualipur resin is 2.19 lbs/sy (1.19 kgs/sm) and the EPDM powder is 1.00 lbs/sy (0.54 kgs/sm).
- E. Top Layer: After the seal layer has cured or is tack-free but no longer than 24 hours, Mix the Qualipur 5050 coating and apply using a notched trowel or squeegee, to achieve an even wet coat. The consumption rate of the Qualipur 5050 is 5.51 lbs/sy (2.99 kgs/sm). Broadcast to excess with colored EPDM granules, using a flat shovel or machine spreader ensuring all of the coating is covered. The consumption rate for the EPDM granules is 7.72 lbs/sy (4.19 kgs/sm).




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- 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

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