

SYNTHETIC TRACK SURFACING- REKORTAN® G-13 FULL POUR 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 and indicated on the drawings.
 - 1. Rekortan® G-13 – A 2-layer, 13mm impermeable full pour track system. It consists of a renewable gel polyurethane base layer and a flood and chip top coat of polyurethane and embedded EPDM rubber granules. The minimum depth of the system shall be 13mm with the depth of the top-wearing layer a minimum of 4mm.

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 product being installed.

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4. Submit evidence that the synthetic surfacing contractor is a member of the American Sports Builders Association (ASBA).

1.04 QUALITY ASSURANCE

- A. The track surface installer shall be authorized by APT (Manufacturer) and possess a minimum of ten (10) years' experience of 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 track system, within the last three years. A letter of certification from the manufacturer must accompany the bid proposal.
- D. The manufacturer (APT) must offer a minimum of four (4) IAAF approved 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.




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- 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

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

2.02 MATERIALS

- A. Rekortan® G-13 Running Track Surface: A two layer, full pour track surface, consisting of a 9mm base layer of Qualipur renewable gel polyurethane, and a 4mm top layer of Qualipur self-leveling polyurethane with an embedded EPDM broadcast rubber finish.

Materials include:

1. Qualipur Primer
2. SBR Spray Rubber
3. Two Component Qualipur Renewable Polyurethane
4. Two Component Qualipur Polyurethane
5. 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. The General Contractor 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, 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 surface is the surfacing contractor's responsibility.

3.02 PRODUCT AND MATERIAL DESCRIPTION

- A. Rekortan® G-13, is a 2-layer, 13 mm, impermeable full pour system. The first application is a 9mm self-leveling, force reduction layer of polyurethane that is approximately 76% renewable. The final layer has a self-leveling full-pour, flood and chip topcoat of polyurethane that is embedded EPDM broadcast rubber granules.




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- B. Rubber (Black SBR Spray): The rubber in the base layer 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. Colored Rubber (EPDM Broadcast): Must be Melos rubber. Unless specified, black rubber is not allowed in the wearing course. Color: Red unless otherwise specified.
- D. Full Pour Polyurethane: The full pour polyurethanes shall be a renewable, gel polyurethane compound and a full pour top layer, with no solvents or fillers added. The specified products are Qualipur 5052 (A&B) in the base layer and Qualipur 5050 (A&B) in the top layer.

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. After primer has become tack free, but no longer than 24 hours, apply base layer. The consumption rate is 0.29 lbs/sy (0.16 kgs/sm).
- C. Base Layer: After primer and/or any detail applications have cured to tack-free, but no longer than 24 hours, mix Qualipur 5052 (A&B) resin, add 20% spray rubber to mixture, blend until thoroughly mixed, and apply using a notched trowel or squeegee. Do not overwork material; this can cause excessive trapped air. The consumption rate of the Qualipur 5052 is 11.43 lbs/sy (6.21 kg/sm). The consumption of the rubber is 2.82 lbs/sy (1.53 kg/sm).
Before base resin layer sets, blow onto the surface a fine layer of black SBR rubber, to create a texture. This texture will help support traffic on the surface, help keep the exposed resin from contamination, and help adhesion of the top layer. Approx. consumption of the rubber is 0.5-0.67 lbs/sy.




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- D. Top Layer: After base layer has cured, but no longer than 24 hours. Mix the Qualipur 5050 (A&B) 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 1-4mm 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).
- E. 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-stripping specialist shall perform the line striping.

END OF SPECIFICATION – REKORTAN® G-13

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