



Section 02577

SYNTHETIC TRACK SURFACING – REKORTAN® G 10 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 -10 – Renewable polyurethane bound layered impermeable running track surface with a polyurethane seal layer and an EPDM broadcast rubber finish. Minimum depth of product shall be 10 mm with the depth of the top-wearing layer a minimum of 4 mm.

1.02 CODES AND STANDARDS

- A. Codes and standards follow the current guidelines set forth by the International Associations of Athletics Federation (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 instructions.
 - 2. Submit three (3) representative track samples in the color of surfacing to be installed.
 - 3. Submit Material Safety Data Sheets (MSDS) for all individual components of the surfacing to be installed.

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

1.04 QUALITY ASSURANCE

- A. An installer authorized by APT will apply the track surface. The contractor shall have a current contractor's license, as well as a current sales tax and use tax number if applicable.
- B. Successful contractor will provide proof of insurance as well as payment bonds if required.
- C. **All polyurethanes used must be manufactured by an ISO 9001 Certified company. Manufacturer's ISO 9001 certificate must accompany bid.**

1.05 SITE CONDITIONS

- A. Weather: Surfacing shall not be done when the threat of freezing exists for the following 24 hours, rain is imminent or gusting winds are occurring.
- B. Site: While surfacing and striping are being done, sprinkler systems must be curtailed, 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. Do not apply rubberized topping when base surface temperature is less than 40° F.
- D. 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 manufacturer's standard 5 year warranty.

PART 2 – PRODUCTS

2.01 MANUFACTURER

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

2.02 MATERIALS

- A. Rekortan® G-10 Running Track Surface: Full pour layered renewable Qualipur polyurethane bound poured-in-place track surface with an embedded EPDM broadcast rubber finish.

Materials include:

1. Qualipur Polyurethane Primer
2. SBR Broadcast Rubber
3. Two Component Qualipur Renewable Polyurethane
4. Two Component Qualipur Polyurethane
5. Melos EPDM Broadcast Rubber (or approved equivalent)

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify asphalt concrete paving for dimensional accuracy, strength, and surface preparation. Notify owner of any deficiencies. Recommended compaction of asphalt and sub base is 95%.
- B. 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° 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.
- C. Entire surface shall be clean and free of all dirt, oil, grease or any other foreign matter. It is the responsibility of the general contractor to thoroughly clean and/or pressure wash all areas of the new and/or existing asphalt or concrete base as necessary to ensure adhesion of the track surface.
- D. 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.
- E. Beginning installation stipulates track installer “accepts” existing conditions. Adhesion to the existing asphalt is the surfacing contractor’s responsibility.

3.02 PRODUCT AND MATERIAL DESCRIPTION

- A. Rekortan® G 10 is a 3-layer, 10 mm, impermeable full pour system. The first layer is a seal layer of polyurethane. The polyurethane within the second layer is approximately 57% renewable and will be installed in two lifts. The final layer has a self-leveling full pour, flood and chip topcoat of polyurethane that is embedded with EPDM broadcast rubber granules.
- B. Rubber (SBR Broadcast): The rubber in the middle layer shall be specifically graded Styrene Butadiene Rubber (SBR). SBR is to be dried to no less than 2.5% moistures and sealed in bags.
- C. Colored Rubber (EPDM Broadcast) – Must be Melos rubber (or approved equivalent). Unless specified, black rubber is not allowed in the wearing course. Color: Red unless otherwise specified.
- D. Full Pour Polyurethane: The first layer of full pour polyurethane shall be a two component Qualipur renewable polyurethane compounded with no solvents or fillers added. The top layer of Qualipur polyurethane is compounded with no solvents or fillers added. The specified products are Qualipur 5051 (A & B) in the second layer and Qualipur 5050 (A & B) in the first and third layers.

3.03 APPLICATIONS PROCEDURES

- A. The entire surface shall be clean and free of dirt, oil, grease or any other matter 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. Qualipur 1030 for asphalt and Qualipur 1230 for concrete or over an existing surface at an approximate rate of 0.16 kg/m² (0.29 lbs/yd²).
- C. Base Layer: After the primer and any detail applications have cured to tack-free, but no longer than 24 hours, apply the mixed Qualipur 5050 coating evenly at 0.6 kg/m² (1.10 lbs/yd²) using a notched trowel or squeegee.
- D. Second Layer: After the primer and any detail have cured to tack-free, but no longer than 24 hours, apply the mixed Qualipur 5051 coating evenly at 3.00 kg/m² (5.54 lbs/yd²) using a notched trowel or squeegee. Do not overwork the material. This can cause excessive entrapped air.

Broadcast to excess with Black SBR rubber using a flat shovel or machine spreader ensuring all of the coating is covered 3.80 kg/m² (7.01 lbs/yd²) will be needed for thorough coverage. Ensure the rubber is thoroughly dry.

Mixing ratio: Qualipur 5051 is 0.65:1 A & B

Note: *Qualipur 5051 Part A is available in 190 kg or 950 kg packaging.
Qualipur 5051 Part B is available in 204 kg or 1020 kg packaging.*

- E. Top Layer: After the first layer is cured, but no longer than 24 hours, remove any rubber that is not bonded to the coating using a sweeper or vacuum/blower. Apply Qualipur 5050 evenly by using a notched trowel or squeegee at a minimum rate of 2.33 kg/m² (5.51 lbs/yd²) .

Broadcast to excess with colored EPDM rubber ensuring all of the coating is covered. Approximately 4.19 kg/m² (7.72 lbs/yd²) of EPDM rubber will be needed for thorough coverage on the top layer.

After this coating is cured, remove the excess rubber that is not bonded to the coating using a sweeper or vacuum/blower. Approximately 2.00 kg/m² (3.69 lbs/yd²) of EPDM rubber will be reclaimed.

3.04 STRIPING AND MONUMENTATION

- A. The contractor shall consult with the owner prior to the start of their calculations for determination of the finish line location, events to be run, location of lane numbers and additional paint markings.
- B. All line marking paint is to be approved by the synthetic surfacing manufacturer. Only an experienced track striping specialist shall perform the line striping.

END OF SPECIFICATION – REKORTAN®

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