

## Regupol® AG Track

### OUTDOOR RUNNING TRACK SYSTEMS – REGUPOL® PREFABRICATED BASE MAT TYPE

#### **PART 1.0 GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Synthetic track surfaces.
- B. Line markings.

##### **1.2 RELATED SECTIONS**

- A. Section 02300 - Earthwork.
- B. Section 02370 - Erosion and Sediment Control.
- C. Section 02630 - Storm Drainage.
- D. Section 02725 - Aggregate Base Course.
- E. Section 02743 - Bituminous Concrete Pavement.
- F. Section 02753 - Plain Cement Concrete Pavement.
- G. Section 02920 - Lawns and Grasses.
- H. Section 02930 - Exterior Plants.
- I. Section 13010 - Air Supported Structures.

##### **1.3 SUBMITTALS**

- A. Submit manufacturer's product data including installation guidelines and maintenance instructions.
- B. Shop Drawings: Submit Shop Drawings indicating location and color of lane lines, start lines, finish lines, and related markings prior to application.
- C. Samples: Submit 3 representative track samples in color of surfacing to be installed.
- D. Test Reports: Submit test reports that verify manufacturer's specifications for products to be installed.
  - 1. Submit certificate of accuracy from registered engineer or land surveyor stating that track measures specified distance in lanes from start to finish.
  - 2. Submit letter from synthetic surfacing material manufacturer stating that surfacing contractor is qualified to install surfacing material manufacturer's synthetic surface system.
  - 3. Submit evidence that synthetic surfacing contractor holds necessary contractor's license to install synthetic surfacing.

#### **1.4 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications: Company that has produced Regupol® AG surfacing materials for not less than 20 years.
- B. Installer Qualifications: Minimum 5 years experience in successful installation of surfacing systems of type specified.

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store in a weathertight location and protect from damage during delivery storage and handling.

#### **1.6 WARRANTY**

- A. Provide manufacturer's 5 year written warranty that its products are free from defects in material and workmanship, and that manufacturer agrees to repair or replace items proven to be defective or refund purchase price of item.
- B. Provide manufacturer's 3 year written warranty for line markings.

## **PART 2.0 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Acceptable Manufacturer: Regupol® America, LLC 33 Keystone Drive, Lebanon, PA 17042 Telephone 800-537-8737 Fax 717-684-2178  
Email: sales@regupol.com Website: [www.regupol.com](http://www.regupol.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### **2.2 REGUPOL AG TRACK SYSTEM**

- A. Synthetic Surfacing: 1/2" inch (13 mm) thick, pre-manufactured, recycled SBR rubber granule and polyurethane binder base mat adhered to asphalt base layer. Self-leveling, wear resistant and seamless coating consisting of solid polyurethane with broadcast EPDM rubber granules. Polyurethane compound is MDI based and must not contain lead, mercury or any other heavy metals.
  - 1. Acceptable Product: Regupol® AG Outdoor Track by Regupol® America
  - 2. Specific Weight: 760 kg/m<sup>3</sup>
  - 3. Weight per m<sup>2</sup>: 12.90 kg

4. Tensile Strength:	0.97 N/mm <sup>2</sup>	DIN 53571 Part B
5. Elongation at Break:	77%	DIN 53571 Part B
6. Force Reduction:	35 - 37%	DIN 18032, Part 2
7. Tear Resistance:	7.0 N/mm	DIN 53515
8. Vertical Deformation:	1.4mm	DIN 18035, part 6
9. Sliding Coefficient:	0.55	
10. Friction TRRL	51%	

### **2.3 COMPONENTS**

- A. Polyurethane Adhesive: Two-component reactive polyurethane adhesive, designed specifically for use in outdoor track construction
  - 1. Acceptable Product: Regupur 111 2-component adhesive.
- B. Sealer: Two component sealer designed to seal the pores of the Regupol mat used for outdoor running track construction.
  - 1. Acceptable Product: Regupur 302 2-component sealer
- C. Polyurethane PUR Wear coat: Two-component polyurethane wear layer, designed specifically for use in outdoor track construction.
  - 1. Acceptable Product: Regupur 210 2-component wear coat.
- D. EPDM granulate: 1mm-3.5mm colored EPDM granules designed specifically for use in outdoor track construction.
  - 1. Acceptable Product: Regupur EPDM 1-3.5mm

### **2.4 ACCESSORIES**

- A. Paint: Polyurethane paint formulated for exterior service environments in striping applications in color as specified for line markings.
  - 1. Thickness: 12 mils DFT. Multiple coats to achieve thickness as required by paint manufacturer. Prime surface to achieve adhesion characteristics of paint.

## **PART 3.0 EXECUTION**

### **3.1 EXAMINATION**

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion.
  - 1. Do not proceed until unsatisfactory conditions have been corrected.
  - 2. Substrate tolerances:
    - A. Planarity: Not to exceed +/-1/8 inch (3 mm) in 10 feet (3048 mm).

- B. Levelness: Not to exceed 0.1 percent in running direction.

### **3.2 PREPARATION**

- A. Surface Preparation: Ensure substrate is fully cured, and free from excess surface oils and chemicals that would impair track surface installation.
1. Concrete: Moisture content within acceptable limits as directed by manufacturer's technical consultant: Not less than 45 day cure time.
  2. Asphalt: Volatiles and latent asphalt content within acceptable limits as directed by manufacturer's technical consultant: Not less than 28 day cure time.
- B. Ensure that asphalt compaction tests indicate compaction of 95 percent or greater. Check asphalt with 10 foot (3048 mm) straightedge in all directions. Repair areas not in conformance or replace with new materials, re-compact, and recheck surfaces.

### **3.3 INSTALLATION**

- A. General:
1. Comply with manufacturer's recommendations.
  2. Make substrate surface repairs and minor planarity corrections with repair compound.
  3. Install track surface as specified to achieve track surface performance and physical dimensions all within tolerances.
- B. Regupol<sup>®</sup> AG Outdoor Track:
1. Pre-manufactured Track Layer: Adhere basemat using 2-component polyurethane adhesive using 1/8" x 1/8" x 1/8"; v-notched trowel. Insure that adhesive is applied to 100% of the base to insure proper adhesion. Roll surface with 75lb roller after 30 minutes to insure proper adhesive transfer. Weight all seams with concrete utility blocks until adhesive has developed a firm set (8-12 hours)
  2. Seams: Head seams are to be overlapped and double cut using a sharp utility knife and straightedge. All head seams must be weighted down with concrete utility blocks. Straightedge long seams as needed in order to install the seam where a track lane line will be placed.
  3. Sealer application: Apply 2- component polyurethane sealer directly on to the Regupol mat using a flat trowel at a rate of 0.5 kg/m<sup>2</sup>.
  4. PUR Wearcoat & EPDM: The PUR wear coat shall be applied by special notched rubber squeegees on top of the sealed base mat at an application rate of approximately 2,1 kg/m<sup>2</sup>. EPDM granules shall be broadcast into the freshly applied wear coat in order to achieve a granulated surface texture. After the PUR wear coat has fully cured the excess EPDM

granules can be removed using a heavy-duty vacuum cleaner or a mechanical sweeper. The EPDM granulate remaining embedded in the surface is measurable at a rate of approximately 2,8 kg/m<sup>2</sup>.

### **3.4 TOLERANCES**

- A. Surface Thickness: Plus/minus (0.3 mm).

### **3.5 SPECIFIC SLOPES**

- A. Track Oval:
  - 1. Running Direction: 0.1 percent.
  - 2. Lateral Slope: 2.0 percent maximum NFSA, 1.0 percent NCAA and IAAF.
- B. High Jump (D Area): 1 percent downward towards cross bar.
- C. Run Ups: Same as oval unless located in high jump (D) area.

### **3.6 FIELD QUALITY CONTROL**

- A. Certifications: Provide certification by registered surveyor attesting to compliance of areas and dimensions defined by striping meets requirements for sanctioned events

### **3.7 SCHEDULES**

- A. Track Line Striping: Events for marking include:
  - 1. Typical Track Events:
    - A. 100m.
    - B. 200m.
    - C. 400m.
    - D. 800m.
    - E. 1000m
    - F. 1500m
    - G. 1 mile.
    - H. 2000m.
    - I. 3000m steeplechase.
    - J. 100m hurdles.
    - K. 110m hurdles.
    - L. 400m hurdles (men and women).

- M. 4 by 100m relay.
  - N. 4 by 200m relay (completed in lanes).
  - O. 4 by 400m relay.
  - P. 4 by 800m relay.
  - Q. 4 by 1500m relay.
2. Other events defined by Owner.
  3. NCAA events.
  4. NFSA events.

**END OF SECTION**