

# Action-Track® 800

## Resilient Polyurethane Track Surface



T E C H N I C A L D A T A

### 1. Purpose:

The intent of this specification is to provide a guideline for the improvement of a previously sound bituminous concrete sub-base. Action Track 800 is a university grade running track surface consisting of a urethane bound, black EPDM base mat, which is rendered impervious by the application of a pigmented polyurethane seal coat. The surface course, a massive polyurethane flood coat, is poured in place with rubber granules imbedded.

### 2. Scope:

The work covered by this specification consists of furnishing all labor, equipment, materials and performance of all operations in connection with the installation of the choke coat, self-leveling flood coat and imbedded rubber.

### 3. Materials:

- Action Track Polyurethane Binder
- EPDM Rubber Base Mat Granulate, 1 mm to 3mm or 1 mm to 4mm rubber coating, no dust.
- Action Track 100% polyurethane MDI base mat.
- Action Track Seal Coat two component, pigmented binder.
- Action Track flood coat, two component, self-leveling polyurethane.
- EPDM Granulate 1 mm - 4mm.

### 4. Surface Preparation:

- After all suitable soil sterilant, a recommended bottom course shall consist of 4" to 8" of compacted crushed stone, gravel or suitable aggregate over a firm, stable frost free sub-grade which has been brought to proper contour and elevation in strict accordance with drawings and/or specifications, and compacted to 95% density.
- A binder-leveling course of an open-textured bituminous concrete (maximum stone size of 3/4") is laid upon the prepared bottom course to a compact thickness of 1.5".
- The wearing (top) bituminous concrete course consists of 3/8" maximum aggregate to a thickness of 1" compacted.

### 5. Planetary and Slope:

Before the application of the surface course, the asphalt base should be tested for planetary using a 10' straight edge. All leveling work should be performed so that the finished surface slope is a minimum of 1%. Low spots to be rectified prior to installation of base mat.

### 6. Procedure; Base Mat:

- Following inspection of asphalt base and required curing time, the entire area to be surfaced shall be thoroughly cleaned, removing any foreign and loose material(s).
- Action Track Polyurethane Primer will then be applied to the entire surface uniformly at a rate of not less than .3 lbs. per square yard. Allowing a minimum of 30 minutes curing time before the application of the base mat material.
- The base mat will consist of an 18 to 23% range polyurethane base mat binding agent and 77 to 82% range EPDM rubber base mat granulate as described above. This mixture is prepared in a mechanical mixer which is clean and dry. The base mat is applied with mechanically operated screed machine which has an electrically heated screed. All joint work will be flush with the adjacent mat. Joints which have cured will have their edges primed with Action Track Polyurethane Primer.

### 7. Choke Coat:

- A squeegee applied layer of Action Track Seal Coat shall be applied at the rate of no less than 2.75 lbs. per square yard.
- This coating shall completely seal the base mat.

### 8. Self Leveling Flood Coat:

- The Action Track 2 component polyurethane flood coat shall be applied at a depth of 3mm.
- Dry rubber particles shall be broadcast onto the flood coat.
- 1 - 4 colored EPDM rubber particles shall be applied at a rate of 6.5 lbs. per square yard. Upon full cure, the non-bonded rubber particles shall be removed with a vacuum.
- The rubber remaining will be approximately 5 lbs. per square yard.

Please see the next page for more information.

## COPELAND COATING COMPANY

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**9. Minimum Physical Properties of the Surface:**

- THICKNESS: 13mm or as specified by architect or engineer
- HARDNESS: (ASTM D42240): Shore A @ 30 to 508
- ELONGATION: (ASTM D412): 28.0%
- TENSILE STRENGTH: (ASTM D412): 36.2 PSI
- ABRASION RESISTANCE: (ASTM D501): 0.25 to 0.425 grams loss after 1000 cycles
- CHALKING: (ASTM D822): No change after 1000 hours in weatherometer
- COEFFICIENT OF FRICTION: (ASTM D1894): Dry- 0.70 to 0.75 • Wet- 0.80 to 0.9
- RESILIENCE: (ASTM D2632): 37 to 44%
- TEAR RESISTANCE: (ASTM D624): 50 to 75 PSI

**10. LINE MARKINGS:**

The measurements and markings of the lines and events will be performed according to the recommendations of Copeland Coating Company, Inc. and/or in accordance with IAAF, NCAA regulations and NFHSA. The line paint used shall be compatible with polyurethane surface as recommended by Copeland Coating Company, Inc.

**11. Colors Available:**

**Black, Red, Blue, Green.** Additional colors available upon request.

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