

## SECTION 32 18 23.35

### ACRYLIC / URETHANE BOUND SYNTHETIC RESILIENT TRACK

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Installation of monolithic synthetic resilient surface over prepared sound asphalt concrete pavement.

##### 1.02 RELATED SECTIONS

- A. [ ]
- B. [ ]
- C. [ ]

##### 1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
  - 1. C136 Method of Sieve Analysis of Fine and Coarse Aggregates
  - 2. D870 Resistance to Water
  - 3. D4214 Resistance to Chalking
  - 4. D4587 Resistance to Color Fading
  - 5. D2939 Section 8 Test Method to Determine Residue by Evaporation
  - 6. D3405 Elastomeric Hot Applied Crack and Joint Sealant
- B. United States Sports Builders Association
  - 1. Track Construction Manual 1992, Chapter 8 Calibrating and Marking

##### 1.04 SYSTEM DESCRIPTION

- A. Place alternating layers of specifically graded SBR rubber granules and buffings with acrylic binders to a total thickness of three-eighth (3/8) inch in thickness on entire paved track surface.
- B. Place lines for lanes and mark for events in accordance with United States Sports Builders Association requirements.

##### 1.05 SUBMITTALS

- A. Product Data
  - 1. Submit manufacturers printed product data sheets.

##### 1.06 ENVIRONMENTAL REQUIREMENTS

- A. Apply binder in dry weather when pavement and atmospheric temperatures are fifty (50) degrees F. or above and are anticipated to remain above fifty (50) degrees F. for four (4) hours after completing application.
- B. Do not apply if freezing temperatures are expected within forty-eight (48) hours of application.

#### 1.07 WARRANTY

- A. A two (2) year written dual warranty signed by contractor and materials manufacturer is available.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURER

- A. Neyra Industries, Inc., Cincinnati, Ohio
  - 1. Materials listed are as a standard of quality.

[ B. Name SBR rubber granules supplier. ]

[ C. No other material will be acceptable unless approved by the Architect/Engineer/Owner in writing (10) ten days prior to bid date. ]

#### 2.02 MATERIALS

- A. Acrylic Latex Binder: Dynathane, by Neyra Industries, Inc., Cincinnati, Ohio
  - 1. Minimum of fifty (50) percent solids by volume.
- B. SBR Granules: Rubber three (3) to six (6) mm; one (1) to three (3) mm; [buffings].
- C. Crack Sealant: AcrylaSeal.
- D. Line Paint: PermaLine Marking Paint, acrylic latex.
- E. Mixing water:
  - 1. Potable and free from harmful soluble salts.
  - 2. Temperature of water: minimum fifty (50) degrees F.

#### 2.03 MIXES

- A. Binder to be mixed with half as much water as Dynathane Concentrate.

- B. Acrylic Striping Paint can be used as supplied, but up to ten (10) percent water may be added for spray application.

## 2.04 EQUIPMENT

- A. Mechanical device to deposit required pounds per square yard of granular rubber particles must be calibrated and checked prior to installation.
- B. Spray equipment for application of liquid binder must be dual diaphragm airless pumping system capable of applying five (5) to seven (7) gallons per minute through eighty (80) degree fan nozzle.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Inspect existing pavement surfaces for conditions and defects that will adversely affect quality of work.
- B. Architect/Engineer/Owner must accept pavement surface prior to contractor beginning installation.

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SPECIFIER SHOULD SELECT SECTION 3.02 UNDER PREPARATION BASED ON JOB REQUIREMENTS.

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### 3.02 PREPARATION

- A. Remove all vegetation from surfaces to be coated.
- B. All surfaces to be coated should be thoroughly cleaned to remove foreign matter, (dirt, gravel, leaves, grass clippings, etc.), using mechanically powered forced air blowers and stiff bristle brooms.
- C. Fill all cracks greater than one-eighth (1/8) inch wide with hot applied elastomeric sealant conforming to Federal Spec. D3405. Care must be taken not to overfill cracks. Sealant should be placed so as to be flush with crack or one-eighth (1/8) inch recessed within crack. No overbanding permitted.
- D. Bird baths and depressions greater than one-eighth (1/8) inch shall be marked and leveled to within one-eighth (1/8) inch or less of surrounding surfaces. There shall

be no irregular surface areas more than one eighth (1/8) inch out of level with the surrounding area, leveling to be done with hot mix asphalt. Allow the asphalt to cure a minimum of fifteen (15) days. At the end of fifteen (15) days the surface must pass the "no water break test".

### 3.03 INSTALLATION OF SYNTHETIC SURFACE

- A. Prime all surfaces with Dynathane Binder at a rate of .05 gallon per square yard (based on concentrate). Allow to dry for two (2) hours under good drying conditions.
- B. Distribute two and a half (2 1/2) pounds per square yard of three (3) to six (6) mm SBR granules evenly over entire primed surface.
- C. Spray apply .12 gallon per square yard of Dynathane Binder uniformly over entire area covered by SBR granules. Allow to dry for twenty-four (24) hours.
- D. Distribute two and one half (2 1/2) pounds per square yard of three (3) to six (6) mm SBR granules evenly over entire area previously coated.
- E. Spray apply .12 gallon per square yard of Dynathane Binder uniformly over entire area where previous layer of granules were placed. Allow to dry for twenty-four (24) hours.
- F. Distribute two (2) pounds per square yard of one (1) to three (3) mm SBR granules evenly over entire area previously coated.
- G. Spray apply .12 gallon per square yard Dynathane binder uniformly over entire area where previous layer of granules were placed. Allow to dry twenty-four (24) hours.
- [ H. Distribute and hand lute a layer of SBR rubber buffings at a rate of two (2) pounds per square yard. ]

[ OR ]

- [ H. Distribute two (2) pounds per square yard of one (1) to three (3) mm SBR granules evenly over entire area previously coated. ]
- [ I. Spray apply .15 gallon per square yard of Dynathane binder. This final coating process shall be done in one (1) pass. Allow to cure forty-eight (48) hours. ]
- J. Check surface for uniformity and obtain Architect/Engineer/Owner approval.

- K. Allow entire surface to cure forty-eight (48) hours before striping. Allow 7 days for final cure before opening facility for use.
- L. Markings and lines shall be installed by qualified and experienced technician and according to United States Sports Builders Association standards using acrylic latex paint.

#### 3.04 PROTECTION

- A. Contractor must protect fences, curbs, walkways, etc. from spills and overspray.
- B. All pallets, bags, drums, refuse and trash shall be removed from the site in a timely fashion and work areas are to be kept clean and orderly throughout the process.
- C. Gates shall be locked and public access to work areas restricted while project is in progress.

#### 3.05 SCHEDULE

END OF SECTION