

Construction Specifications T-301 (porous outdoor use)

Resilo-Flex Surfacing System for Track and Field

1.0 DESCRIPTION

Mixed at site, resilient surface system consist of uniformly blended mixture of rubber strands and granules incorporated and bound together by Resilo-Flex latex-emulsion binding agents. Can be applied in one layer or multiple layers to achieve desired thickness of 1/4", 3/8" or 1/2" or as specified by the architect. The finished surface provides a tough, durable resilient layer that can withstand spike punishment and wear under all climatic conditions.

2.0 MATERIALS

Resilo-Bond latex-emulsion adhesive.

Resilo-Flex latex-emulsion binding agent.

Resilo-Flex rubber granules.

Resilo-Flex SBR rubber strands.

Resilo-Tint latex UV resistant additive.

Resilo-Color latex-emulsion colored finish coat.

3.0 SAFETY PRACTICES

Construction should be done with due regard to use of equipment and procedures designed to minimize danger to personnel and materials. Resilo-Flex Corp. provides Safety Practice Recommendations for consideration when constructing the Resilo-Flex Surfacing System.

4.0 DRAINAGE

Special attention or proper drainage of the subgrade and surrounding area is of the utmost importance in building a track. A suitable sub-surface drainage system shall be installed in accordance with the specifications and design for local soil and climatic conditions under the direction of a qualified engineer or consultant.

5.0 SITE PREPARATION AND CRUSHED STONE BASE

Upon a stable and frost-free subgrade that is well compacted and drained, apply four inches to six inches of crushed stone gravel to the grade and contour proposed; installed in accordance with the engineer's specifications and guidelines. Thickness of stone may vary in different parts of the country due to soil and climate conditions.

6.0 ASPHALT BASE COURSE

Upon the prepared stone base course a 2½" layer of asphalt binder course mix shall be laid in accordance with proposed grade, contour and elevation. The asphalt mix shall be an open textured porous grade material. Application shall conform to appropriate state specifications for asphalt.

7.0 ASPHALT LEVELING COURSE

7.1 An additional leveling course of asphalt shall be applied to a thickness of one inch in accordance with proposed grade, contour and elevations. Maximum size aggregate shall not exceed 3/8" size. The final asphalt surface when completed, shall not vary more than an eighth inch in ten feet when measured in any direction from the proposed grade.

8.0 CONFORMANCE REQUIREMENTS

New or existing asphalt base should be in compliance with the dimensional accuracy as prescribed by the engineer, architect or consultant. The asphalt base must have proper grade and slope as recommended by the U.S. Tennis Court and Track Builders Association track construction manual, NEFSHSA, NCAA and IAAF governing bodies. Also existing asphalt base must have proper strength and structural integrity to receive the new resilient surfacing.

Engineer or architect shall approve any repair work on the asphalt base. Any areas not conforming to specifications shall be brought up to standards by the asphalt contractor.

Resilient surfacing contractor shall visit the site prior to installing the surface to inspect the asphalt base for proper dimensions, grade and slope, strength of base and surface preparation requirements. The resilient surfacing contractor shall report any deficiencies to the owner, engineer or architect.

Any repair or patching materials should be approved by the resilient surfacing contractor before asphalt contractor performs the repair work. The asphalt base shall be free of any ridges, water pockets, high or low areas, grease and oil spots. The asphalt contractor shall flood the new asphalt surface to determine if any low areas exist.

9.0 RESILO-FLEX SURFACING SYSTEM MATERIALS

9.0 Synthetic Rubber: Styrene-butadiene rubber granules (SBR) and rubber strands containing less than 3% dust retained on the #30 ASTM sieve conforming to the following sizes:

G - 3-6mm

G - 1-3mm or 1-4mm

G - .5-2mm or RS 8-16

9.1 Binding Agents: Resilo-Bond and Resilo-Flex carboxylated SBR latex resin with at least 51% solids content.

9.2 Water: Potable.

9.3 Lane Marking Paint: Exterior grade acrylic latex as approved by manufacturer.

APPLICATION

9.4 NEW ASPHALT shall have a curing time of 1--14 days

prior to installing the Resilo-Flex surfacing system.

OLD ASPHALT or existing rubberized asphalt tracks shall be prepared in strict accordance with recommended preparations procedures for old pavements as approved by Resilo-Flex and in compliance with the specifications set forth.

STRUCTURAL LAYERING

- 9.5 **MIXING:** Quantities of rubber granules and rubber strands along with a predetermined amount of Resilo-Bond latex shall be mixed together in a stationary mechanical mixer (paddle wheel type.). The Resilo-Bond latex and rubber particles shall be thoroughly mixed together so all the rubber granules are completely encapsulated by the Resilo-Bond latex.
- 9.6 **PLACEMENT:** The pre-mixed material shall be transported to the track and applied on the prepared asphalt as soon as possible using straight edge tools to level and spread the material in place. **DO NOT ALLOW PRE-MIXED MATERIALS TO DRY BEFORE PLACEMENT.** Before the material is thoroughly dry additional Resilo-Bond latex may be added to the structural layer by means of pressurizing spray injection process. Applications in accordance with and conforming to the Resilo-Flex formulation.

FIRST LAYER

- 9.7 Resilo-Flex G - 3-6 mm rubber granules and Resilo-Flex Binder shall be mixed together in a mechanical mixer and transported to the track and applied by means of a straight-edged tool or mechanical screen rail method. The base layer of the Resilo-Flex mixture shall be uniformly spread at the rate of 1.25 - 1.75 lb. per square yard. Additional latex binder shall be added by pressure spray method at the rate of .10 - .13 gal. per square yard over complete layer of rubber. Pump pressure must be at least 45 lb for proper infection of latex binder.

SECOND LAYER

- 9.8 Resilo-Flex G - 1-3 mm rubber granules and Resilo-Flex binder shall be mixed together in a mechanical mixer and spread at the same manner at the approximate rate of 2.75 pounds per sq. yd. Second layer shall be further saturated by Resilo-Flex binder at the rate of .15-.18 gal. per sq. yd. using pressure spray equipment. Allow to cure for 12 -15 hours.

THIRD LAYER

- 9.9 Resilo-Flex G-1-3 mm rubber granules and Resilo-Flex binder shall be mixed together in a mechanical mixer as in the second layer and spread in the same manner at the approximate rate of

2.25 - 2.50 pounds per sq. yd. Third layer shall be further saturated by Resilo-Flex binder at the rate of .15 - .18 gal. per sq. yd. using pressure spray equipment. Allow to cure for 12 -15 hours.

FOURTH LAYER

- 9.10 A fine textured layer of G-.5-2 mm rubber granules or SR-8-16 rubber strands shall be spread by straight edged tools in a uniform manner at the approximate of 1.5 - 3 lbs. per square yard. The fourth layer shall be saturated with Resilo-Flex latex binder at a rate of .16 - .18 gal. per square yard. Allow to cure properly.

ULTRA-VIOLET PROTECTIVE COAT

- 9.11 Resilo-Tint may be added to the final two spray coats for additional ultra-violet protection. A final spray coat shall be applied by means of pressurized spray injection process over the complete track at the rate of .05 - .075 gal. per sq. yd. Resilo-Tint shall be added to the Resilo-Bond latex binder prior to spraying at the rate of one gallon of Resilo-Tint per 100 gal. of latex binder.

10.0 LANE LINES AND EVENT MARKINGS

All lane lines and event markings shall be calculated and laid out by trained professional people who are well experienced in track measurement and painting. All track events shall conform to the NFSHSA, IAAF or NCAA recommended standards. Use exterior grade acrylic-latex paint for all lines and event marking. Include three foot high numbers, label all events and use recommended colors. Upon completion, contractor shall submit a Certificate of Accuracy certifying that the track markings are correct and within the standard tolerances for those events. Use paint recommended by manufacturer of Resilo-Flex

11.0 GENERAL LIMITATIONS

No phase of this construction shall take place unless both ambient and material temperatures are above 45°, nor when rain is imminent or falling, nor when other conditions are obviously unsuitable.

The facilities shall not be used for a minimum period of seven days after completion of all Resilo-Flex surface system constructed pursuant of the specifications. No heavy equipment or vehicles should be allowed on the surface.

NOTE: Additional layers of material or larger rubber granules may be added to achieve various thicknesses as prescribed by the owner.

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