

# RUNNING TRACK SPECIFICATIONS

# GODDARD GTS TRACKS

# SUPREME

Polyurethane Running Track Systems

## PART 1 – GENERAL DESCRIPTION

### 1.01 DESCRIPTION

#### A. Scope

The complete installation of cast-in place polyurethane bound base, full pour polyurethane seal layer, and a polyurethane structural spray top coating track surface as formulated by and furnished by Goddard Coatings Company of Lake Orion, MI. Materials include primer, polyurethane, rubber granules, coating and track line paint.

#### B. Product Description

Goddard GTS SUPREME system is a premium quality, water impermeable competition track surface. The base layer is composed of a prepackaged two component moisture cure polyurethane and rubber granules, cast in a single layer application. A seal layer of two components, thixotropic polyurethane based sealer. The surface texture consists of a pigmented polyurethane binder and colored EPDM granulate spray coating applied to the cured sealed base mat.

#### C. Typical Standards (U.S.A.)

Total average thickness of rubber base pad shall be 3/8" to 1/2" as specified and installed over specified grade asphalt of 3" minimum thickness, placed in two lifts of 1-1/2" each.

#### D. DIN Standards (International Standards)

Total thickness shall be 13 mm and laid over foundation which is constructed in accordance with DIN18035 PART 6 specification.

### 1.02 PERFORMANCE STANDARDS

A. Thickness	≥ 13mm
B. Hardness (Shore A)	55 ± 5
C. Elongation at Break	~90%
D. Tensile Strength	.75 N/mm <sup>2</sup>
E. Compression Set Recovery	90-95% (24hrs)
F. Abrasion Resistance	.25g (1000 cycles)
G. Coefficient of Friction	Dry; .7-.75, Wet; .6-.65
H. Resilience	37-39%
I. Tear Resistance	50-65psi

### 1.03 QUALITY ASSURANCE

#### A. Acceptable Installer

Goddard GTS SUPREME system shall be installed by and authorized factory-trained dealer only.

Installer must submit list of similar work using Goddard Coatings Company materials.



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**1.04 SUBMITTALS**

**A. Samples**

Submit samples of Goddard GTS SUPREME system colors requested by customer.

**1.05 DELIVERY AND STORAGE**

**A. Delivery of Materials**

Materials should not be delivered until site and climate is ready for installation.

**B. Storage of Materials**

The general contractor shall provide a secure, clean, dry location for storage of materials at 50°F to 85°F temperature minimum. Outdoor storage must be fully protected from moisture by a covering with 10 mil polyethylene fill and tarpaulin. All materials stored outside shall be inspected by installer/dealer for moisture contamination before application. Manufacturer recommends materials are to be stored at a secure/locked facility.

**1.06 Warranty**

**A. Warranty**

The Goddard GTS SUPREME system installation shall be warranted by the installer/manufacture for any defects in materials and workmanship for a period of one (1) year or from date of acceptance or as specified in plans and specifications. The warranty shall not cover damage to the installation caused by conditions beyond the control of the guarantor including, but not limited to, moisture permeation from any source, substrate movement or separation, faulty design or construction, abuse of the surface or failure to abide by Care and Maintenance literature including application finishes or protective coatings subsequent to completion of specified work.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

**A. Primer**

Goddard GTS urethane as required over asphalt or concrete.

**B. Base Mat Granulate**

To be SBR/EPDM rubber, 1 to 3 mm in size, with a nominal specific gravity of 1.2 and free of any foreign materials.

**C. Binder**

GTS Binder is a one component, solvent free polyurethane pre-polymer, designed for binding rubber granules in the construction of synthetic sports surfacing.



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**D. Seal Layer**

GTS Seal Layer is a two component, thixotropic, MDI polyurethane based sealer, designed to seal porous rubber mats prior to the application of polyurethane coatings.

**E. Structural Spray Coating**

Goddard GTS Structural Spray coating is a single component fully pigmented urethane, mixed until homogenous with like colored EPDM granulate for a textured top surface.

**F. EPDM Spray Granulate**

Synthetic rubber of .5 to 1.5 mm size for a typical texture application. EPDM grades of <.5 mm and 1.0 to 3.0 mm are available for desired profiles variations.

**G. Track Line Paint**

Goddard GTS track line paint, in seven (7) standard colors.

**PART 3- EXECUTION**

**3.10 INSPECTION**

**A. Substrate**

Refer to Specific Goddard Coatings Company Substrate Specifications.

Prior to installation of the Goddard GTS SUPREME system, the asphaltic or concrete base shall be inspected for surface tolerance. Structural tolerances or design mix of the asphalt or concrete base shall meet specifications as approved by the site inspector. Deviations in the planarity of the base of 1/8" in 10' shall be corrected by others in a manner acceptable to track surfacing manufacturer.

All work required to put the substrate in acceptable condition shall be the responsibility of the general contractor.

Installer shall perform test for moisture and adhesion prior to application and report adverse conditions to the general contractor in writing.

Asphaltic concrete shall be allowed to cure a minimum of fourteen (14) days prior to installation of track surfacing. Portland cement bases shall be allowed to cure a minimum twenty-eight (28) days with variables based on climate conditions.

**3.02 INSTALLATION**

**A. Priming**

Surfaces to receive Goddard GTS SUPREME system shall be primed as required by surface conditions and in accordance with manufacturer's recommendations.

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B. Base Mat

Base layer shall be achieved using a homogenous mixture of rubber granules and Goddard polyurethane. Goddard GTS Binder shall be 20% of total batch weight. The mixture shall be cast in place by an electrically powered, self propelled, urethane paving machine. The machine shall have an electrically or oil heated, oscillating screed plate. The machine shall strike off the material to the specified thickness. Work is to be performed in such a way that cold joints are minimized. The average base mat thickness shall be 10mm-12mm.

C. Seal Layer

Prior to the application of the seal layer, the base mat shall be inspected for imperfections and corrected. The seal layer is applied to the base mat with a rubber squeegee spread uniformly over entire surface. The consumption rate is approximately 0.6-1.2kg/m<sup>2</sup>.

D. Structural Spray Coating

Over the cured base mat, a minimum of 2 applications of Goddard GTS Structural Spray coating for textured and wearing finish. It consists of a pigmented urethane (60%) and EPDM Granulate (40%) resulting in a uniform textured profile. The structural spray will be machine sprayed in place at a rate of 3.6 lbs per square yard. Colors may be black, red, blue or green.

E. Line Markings

Lane line marking and events shall be applied in accordance with governing bodies. "Certified" or "Certifiable" lines will be furnished as specified.

F. Site Clean Up

Upon completion of installation, installer shall remove all unused materials, tools equipment and rubbish. To dispose of empty containers in accordance with federal and local guidelines and restrictions.

### 3.03 PROTECTION

A. Cure Time

No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete cure of finish system.

B. Other Trades

It shall be the responsibility of the general contractor to protect the track from damage from other trades before acceptance by the owner or his agent.



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C. Safety

No smoking, open flames or sparks from electrical equipment or other sources shall be permitted during application of materials.

MANUFACTURER

Goddard GTS SUPREME system is a brand name of Goddard Coatings Company, and all Goddard Coatings Company Systems are installed by authorized, factory-trained personnel.

