



Granular Tracks System (GTS) Guide Specification

Section _____ -SYNTHETIC RUNNING TRACKS

PART 1 GENERAL DESCRIPTION

1.1 DESCRIPTION

A. Scope

1. The complete installation of a cast-in-place polyurethane bound, rubber granule track as formulated by, and furnished by **ITW Resin Technologies, Montgomeryville, Pa.** Materials include primer, polyurethane, rubber granules, coating, and track lines.

B. Related work specified under other sections

1. Concrete Substrate- Section 09____
 - a. Slab depression shall be equal to the total thickness of specified system.
 - b. The slab shall be steel troweled and finished smooth to a tolerance of 1/8" in any 10' radius.
No curing agents or sealers are to be applied to the concrete slab.
 - c. Concrete shall be cured for a minimum of 30 days and a moisture content of 3% or less.
2. Asphalt Substrate
 - a. Asphalt substrate shall not deviate more than 1/8" in a 10 feet laterally and longitudinal direction. It is the responsibility of the engineer to determine the extent of this need.
 - b. Asphalt shall cure for a minimum of 14 days.

C. Product Description

1. **ITW Resin Technologies Granular Track Systems** is a premium quality, water permeable competition track surface composed of a one (1) component, moisture cure polyurethane (**Resin Technologies 8820**) and EPDM or SBR rubber granules, cast in a single layer applications, according to specifications. The surface texture consists of a pigmented polyurethane binder (**Resin Technologies 8903**) and colored EPDM granulates blended for a textured spray coating, which is applied over a cured base mat.

D. Typical Standards (USA)

1. Average thickness of a new installation shall be 12 mm (1/2 inch) or as specified, after consultation with owner or his/her representative concerning the physical and aesthetic requirements of the facility over a properly prepared subsurface.

1.2 QUALITY ASSURANCE

A. Manufacturer

1. Manufacturer of the resilient track system shall be a firm specializing in manufacturing products specified in this section.

B. Acceptable Installer

1. The complete installation of the resilient track system, as described in the scope of these specification, shall be installed by an authorized, factory-trained installer in accordance with the instructions of the manufacturer.
2. Installer must submit list of similar work using Resin Technologies materials.
3. Installer shall be responsible for all matters related to installation for a period of one year

1.3 SUBMITTALS

A. Literature

1. Submit TRACKFLEX technical data Sheets.
2. Upon completion of and inspection of the resilient track system, the contractor shall submit a TRACKFLEX Maintenance Guide to owner.

A. Samples

1. Submit samples of TRACKFLEX sample in colors requested by customer.

1.4 DELIVERY AND STORAGE

A. Delivery of Materials

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

B. Storage of Materials

1. 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 film and tarpaulin. All materials stored outside shall be inspected by installer/dealer for moisture contamination before application.

1.5 WORKING CONDITIONS

A. Schedule of Installations

1. The installation of the **Granular Track System** shall not proceed until all trades related to the site, such as landscaping or synthetic field placement, are complete.

2. Moderate temperatures and weather conditions are necessary for a successful installation. The temperature should higher than 50 degrees, rain should not be imminent, and wind should not exceed 15 miles per hour.
3. The substrate shall be clean, dry and free of dirt, dust, oil grease, paint alkali, concrete curing agents, hardening and parting compounds, old adhesive residue of other foreign materials.
4. After the resilient Granular Track System is installed, lines are applied in accordance with the governing body. The area shall be closed to traffic and activity for a period set by the track installer.

1.6 Warranty

A. Warranty

ITW Resin Technologies, a division on Illinois Tool Works Inc., warrants that it products meet their printed specifications. This warranty expires one year after shipment. If any product fails meet these specifications, ITW Resin Technologies will, at its option, replace the product or refund the purchase price. ITW Resin Technologies will have no other liability for breach of warranty, negligence or other wise. All warranty claims must be submitted in writing with within one year of date of shipment. No other claims will be considered. ITW Resin Technologies makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Any suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. Under no circumstances shall ITW Resin Technologies be liable for any indirect, incidental or consequential damages, eve if advised of possibility of such damages. No distributor or sales representative has the authority the change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer of ITW Resin Technologies. No term of any purchase order shall serve to modify any provisions of this document.

- B.** This warranty does not cover damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent, or intentional misconduct, aging faulty building construction, concrete slab separations, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of ITW Resin Technologies flooring systems.

PART 2 PRODUCTS

2.1 Acceptable Manufacturers

- A.** All polyurethane components shall be non-hazardous and not contain any lead, any heavy metals, PCB or formaldehyde and shall be supplied by ITW Resin Technologies.

2.2 MATERIALS

A. Primer

1. Gym-Bond 629 as required over existing asphalt or concrete substrate to promote adhesion of 2 component urethane.

B. Single Package Moisture Cure Urethane

1. TRACKFLEX 8820 is blended with rubber granulate, and shall be 18% of total batch weight. The rubber aggregate shall be 1 to 3 mm or 1 to 4 mm in size. The aggregate can be EPDM or SBR. The track shall be applied to specified thickness in single or layered applications.

C. Structural Coating.

1. TRACKFLEX 8903 shall be blended with .5 to 1.5 mm pigmented rubber granulate. To be blended at the ratio of 60% liquid and 40% rubber by weight. The color shall be selected from the colors provided by ITW Resin Technologies

D. Line Paint

1. GMYFLEX 8553 Line Paint is a solvent based, high solids aliphatic polyurethane line paint. The color shall be selected from a color chart provided by ITW Resin Technologies.

PART 3 - EXECUTION

3.1 INSPECTION

A. Substrate

1. Inspect substrate for proper tolerances and dryness, and report discrepancies to the General Contractor.
2. The substrate slab shall be broom cleaned by the General Contractor.
3. All work required to put the substrate in acceptable condition shall be the responsibility of the General Contractor.
4. Installer shall perform tests for moisture and adhesion prior to applications and report adverse results to the General Contractor.

3.2 INSTALLATION

A. Priming

1. The GYMBOND 629 is to be prepared and shall be installed in an appropriate manner and in accordance with manufacturer's recommendations.

B. Placing Materials:

1. The GRANULAR TRACK SYSTEM shall meet the following minimum physical properties per specified thickness:

Surface Thickness:	12 mm.
Weight:	16.1 pounds to 19.7 per square yard
Density:	1.1+/-5
Viscosity of liquid: (cps Brookfield @20 rpm/78°F.)	2000+/-500
Solids by weight of liquid:	100%
Color:	Clear/Amber.
Resiliency (ASTM D 2632)	50+/-2%
Elongation (ASTM D 412):	110+/-10%
Compression Set (ASTM D 395) (25% Deflection/24 hours/25 degrees C)	<5.0%
Method of Installation:	Cast on Site

C. Granular Track Base Layer:

1. Thoroughly mix TRACKFLEX 8820 with rubber granulates in an automated or paddle mixer.
2. Rubber aggregates are to comprise 82% of weight and TRACKFLEX 8820 is to be 18% by weight.

D. Structural Coating

1. Thoroughly mix the TRACKFLEX 8903 with colored EPDM .5 to 1.5 mm rubber aggregates. The homogenous mix shall be comprised of 60% liquid and 40% rubber aggregate.
2. Apply the structural coating in two applications at the rate of 3.4 to 3.8 pounds per square yard.

E. Line Markings

1. Thoroughly mix the GYMFLEX 8553 Line Paint.
2. Consult architectural drawing for game line locations
3. Line markings and events shall be in accordance with specifications and governing bodies.

3.3 PROTECTION

A. Cure Time

1. 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 of finish system.

B. Other Trades

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

C. Safety

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

Manufacturer:

All ITW Resin Technologies Systems are installed by authorized, factory-trained personnel.

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