

SECTION 09624

FloorTech® FT 850 Decorative Flake Flooring System

PART 1.00 -- GENERAL

1.01 GENERAL REQUIREMENTS

- A. Provide labor and materials for a multiple component, seamless, chemical resistant epoxy flooring system, including surface preparation, primers, and finish coats, in accordance with the Contract Documents.

1.02 RELATED SECTIONS

- A. Concrete - Division 3
- B. Thermal & Moisture Protection – Division 7
(Note to Specifier: Concrete should be cured for a minimum of 60 days. On-grade floors should have functioning vapor retarder beneath slab.)
- C. Floor drains – Division 15
(Note to Specifier: Floor drains, clean-outs, etc., should be of the full-flange type as manufactured for use with composition floors by most major drain manufacturers.)

1.03 ACCEPTABLE MANUFACTURERS AND INSTALLERS

- A. FloorTech® FT 850 Decorative Flake Flooring System, FloorTech® Inc, Huntersville, N.C.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver material to job site in clean, clearly labeled containers and inspect prior to start of job.
- B. Store materials in a dry, enclosed area protected from the elements. Keep temperature of storage area between 60° and 90° F.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Cure new concrete no less than 60 days under good conditions.
- B. Verify that substrate is properly equipped with vapor barriers and perimeter drains.
- C. Test for moisture vapor transmission (MVT) using Calcium Chloride Test. If test results are greater than 3 lbs./ 1,000 sq. ft./ 24 hours, call coatings manufacturer before proceeding.
- C. Verify supply of adequate utilities, including electric, water, heat (between 60° and 90° F) and lighting of no less than 80 ft. candles measured at floor surface.
- D. Free work area of other trades during, and for a period of 24 hours, after floor installation.
- E. General contractor is responsible for protecting finished floor from damage by subsequent trades.

1.06 WARRANTY

- A. Submit a one-year warranty against defects in materials and workmanship upon substantial completion of installation.

PART 2 PRODUCTS

2.01 60 MIL DFT EPOXY, SEAMLESS FLOORING SYSTEM, AS MANUFACTURED BY FLOORTECH®, INC.

- A. Primer: FloorTech® FT 330 Solvent Based Penetrating Epoxy Primer
- B. Base Coat: FloorTech® FT 430 High Build Slurry, two-component pigmented 100% solids epoxy
- C. Broadcast: FloorTech® Graded Decorative Flake
- D. Topcoat: FloorTech® FT 470 CRE, two-component clear 100% solids chemical resistant light stable epoxy

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2.02 PHYSICAL PROPERTIES

A. System Properties

<u>METHODS</u>	<u>RESULTS</u>	<u>ASTM NO.</u>
Gloss, 60 Degrees	85+	ASTM E 97
Sward	70	ASTM D 2134
Elongation	6.5%	ASTM D 2370
Tensile Strength	6000 PSI	ASTM D 2370
Abrasion Resistance	56.9 mg loss	ASTM D 4060
Adhesion (5 = Perfect)	5	ASTM D 3359
Accelerated Weathering	Gloss Loss 10%	ASTM D 623
Impact Resistance-Forward	200 Inch Lbs	ASTM G 14
Impact Resistance-Reverse	200 Inch Lbs	ASTM G 14
Fungus and Algae Resistance	No Effect	TT-P-19 Par. 4.3.7
Flame Spread	7.1 Fire Class A	ASTM-E-84

B. Chemical Resistance Guide

<u>REAGENT TESTED</u>	<u>RESULT</u>	<u>REAGENT TESTED</u>	<u>RESULT</u>
Skydrol	1	Nitric Acid 10%	1
Brake Fluid	1	Hydrochloric Acid 10%	1
MEK	1	Acetic Acid 10%	2
JP-4 Jet Fuel	1	Sugar 10%	1
Lactic Acid 10%	1	AFFF	1
Ammonia	1	1-1-1 Trichloroethone	1
Acetone	1	Xylene	1
Sodium Hydroxide	1	Toluene	1
Phosphoric Acid 50%	1	Mineral Spirits	1
Sodium Chloride 20%	1	MIBK	1
Citric Acid 10%	1	Iodine	2 ST
Sulfuric Acid 10%	1	Water	1
Sulfuric Acid 25%	1		

Based on 1-day spot testing. Coating cured 2 weeks prior to testing. Spot Test, ASTM D 1308

RATING SCALE (Pencil Hardness Test, ASTM D 3363)::

- 1 Excellent, no change in pencil hardness.
- 2 Very Good, 1 unit change in pencil hardness.
- 3 Good, 2 units change in pencil hardness.
- 4 Fair, 3 units change in pencil hardness.
- 5 Poor, 4 or more unit change in pencil hardness
- 6 ST, Stains

2.03 PRODUCT MIXING

A. Mix on site in accordance with manufacturer's recommendations to ensure a timely, accurate mix ratio and minimization of waste.

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PART 3 EXECUTION

- 3.01 A.** The following process/specifications shall be for coating of the **Break/Lounge** area .
1. Sweep and scrub area to be prepared
 2. Test moisture content not to exceed coating manufacture's requirements/recommendations
 3. Provide profile with Blastrac™ Surface Preparation System
 4. Hand grind edges, corners, columns, and other fixed structures
 5. Sweep and vacuum to remove loose debris and dust
 6. Prime with 3 mils of FloorTech® FT 330 Penetrating Epoxy Primer
 7. Apply 25 mils of FloorTech® FT 430 Pigmented High Build Epoxy Slurry
 8. Broadcast FloorTech® Graded Decorative Flake into wet epoxy
 9. Sweep and vacuum
 10. Apply 12 mils of FloorTech® FT 470 Clear Chemical Resistant Light Stable Epoxy
- 3.02 DETAILS**
- A. Thoroughly route and vacuum moving cracks and joints.
 - B. Fill expansion joints using backer rod and System 6500 Elastomer.
 - C. Pre-patch non-moving surface deviations with patching compound comprised of 100% solids epoxy and aggregate, such as FloorTech® FT 290 Grout and Crack Filler.
 - D. "Key in" all drains, edges and transition points according to manufacturer's instructions.

END OF SECTION