

PRODUCT INFORMATION

FT840™ High Service / Impact Resistant System



DESCRIPTION

FT 840™ High Service / Impact Resistant System is a 1/8" three component system that includes 100% solids epoxy and selected aggregates brought together to form a laminating flooring system designed to resist impact, heavy abrasives and chemical spillage.

ADVANTAGES

FT 840™ provides excellent impact and chemical resistance, while providing an attractive, easy to maintain surface.

RECOMMENDED USES

FT 840™ High Service / Impact Resistant System is ideally suited for automotive dealerships as well as shop and assembly areas.

FEATURES

- Good chemical, impact and abrasion resistance
- VOC compliant
- Solvent-free / Odorless
- USDA accepted
- Smooth or anti-slip finishes
- Excellent UV light resistance

GENERAL DATA

Application Temperature & Humidity	55°—90°F @ <75% RH
Color	Standard and Custom Tweed
Percent Solids By Weight	100%
Pot Life	30 minutes at 75°
Cure Rate @ 75°F	
Recoat	4 hours
Foot Traffic	24 hours
Fork Traffic	48 hours

TEST / PHYSICAL PROPERTIES

Test	Test Method	Typical Value
Compressive Strength	ASTM C-597	9,000 P.S.I.
Tensile Strength	ASTM C-307	2,050 P.S.I.
Flexural Strength	ASTM C-580	4,200 P.S.I.
Flexural Modulus of Elasticity	ASTM D-790	2.1 x 10 ⁶ P.S.I.
Hardness Shore D Durometer	ASTM D-2240	86—89
Thermal Coefficient of Linear Expansion	ASTM D-696	3.75 x 10 ⁻⁵ in/in/°F
Indentation	MIL-D-3134F	None
Abrasion Resistance	ASTM D-1044 CS-17 Wheel	0.08 mg max

CAUTION AWARENESS

As with all high performance coatings, the cured product may become slippery when wet or if exposed to oily conditions. For a procedure for incorporating aggregate to obtain a non-slip finish, contact your FloorTech/IFC Sales Representative.

This product may contain solvents and is recommended for use only in areas with adequate ventilation.

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LIMITATIONS

This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer. Do not apply to floors previously treated with curing and parting compounds or other coatings unless they have been completely removed by chemical or mechanical means. Do not use on vinyl, asphalt, rubber, glazed tile, paving brick, quarry tile, Mexican tile, or similar materials.

Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or FloorTech Technical Service.

Sealed surfaces may discolor under tires due to tire plasticizer migration.

If the product is to be applied in or near areas containing food stuffs, they should be removed before the application and until the coating has fully cured and all vapors have dissipated.

As with all high performance coatings, the cured product may become slippery when wet or if exposed to oily conditions. Aggregate may be incorporated to maintain a non-slip finish.

Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. Critical recoat times will also be affected.

SYSTEM SPECIFICATION

FT 840™ High Service/Impact Resistant System may be installed by using either a double broadcast or trowel down method. The system is composed with the following:

- Primer: FT330 / FT360
- FT450 Trowel Down Quartz Slurry
- Grout coat of FT460 Crystal Clear Top Coat
- Optional Top Coat

For additions, chemical and abrasion resistance is required. System may be topcoated with FT500 series thin urethane coatings.

FLOOR INSPECTION

The area to be surfaced must be a minimum of 60 days old, clean, sound and above 60°F.

The surface must be checked to determine if a curing compound and/or coating is present.

Moisture content of all concrete surfaces to be resurfaced and/or coated must be checked to determine the presence of excess moisture or moisture vapors.

Steps To Take:

1. *Polyethylene Sheet Method*—apply 2x2' plastic sheet to the surface to be tested with duct tape. After 24 hours, check underside for presence of moisture.
2. *Delmhorst Moisture Meter*—this is an electrical resistance test to measure moisture content. Two holes are made in the area to be tested and two probes are inserted and a measurement is taken. A reading of >20 indicates the presence of moisture.

Calcium Chloride Test—Most accurate to measure vapor transmission by absorbing anhydrous calcium chloride. A pre measured lid is placed under an airtight cover for 60 hours after which the lid containing calcium chloride is measured and the increase in weight is a measurement expressed in pounds of water per 1,000 sq. ft. A reading above 3 indicates the presence of moisture.

SURFACE PREPARATION

All oils, grease, curing compounds, laitants and surface contaminants must be removed first. If surface has been previously coated and testing indicates that it must be removed to provide a suitable profile for proper adhesion. Check with your FloorTech Sales Representative for feasibility for chemical/mechanical removal.

The proper profile recommendation is important because it determines the thickness of the system, bond strength and wearing characteristics of the system used. A thin mil protective coating will require a tightly textured low profile to maximize bond and provide flatness to maximize wear and reflectivity.

The International Concrete Repair Institute (ICRI) Guideline

No. 03732 has set forth a numerical, surface profiling indicators to be specified for various coating systems — from CSP 1 (Concrete Surface Profile) for 0—3 mil coatings to CSP 9 for >125 mil for synthetic overlayments.

FloorTech adheres to the surface profile guidelines on all coating systems as established by ICRI.

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ICRI Guidelines

	<u>Dry Mil</u>	<u>Coating System</u>
CSP 1, 2 & 3	0—3 Mils	FT300/500 Series
CSP 2, 3 & 4	4—10 Mils	FT500 Series
CSP 4, 5 & 6	40—125 Mils	FT400 High Build Series
CSP 5, 6, 7, 8 & 9	>125 Mils	FT820 & FT900 Series

CHEMICAL PREPARATION

ASTM D-4258-83	Standard Practice for Surface Cleaning Concrete for Coating
ASTM D-4260-83	Standard Practice for Etching Concrete

MECHANICAL PREPARATION

Coating / overlayment that requires a profile greater than a CSP 3 should be profiled mechanically by shot blasting or manual scarifying/grinding. Surface should be left with a uniform CSP texture.

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