

## PRODUCT INFORMATION

### FT830™ Trowel Down Decorative Quartz System



#### DESCRIPTION

FT 830™ Trowel Down Decorative Quartz System is a 1/16" to 1/8" three component system that includes 100% solids epoxy resurfacing system and color quartz aggregate. This attractive flooring system is used wherever aesthetics, ease of cleaning and slip resistance are major considerations.

FT 830™ Trowel Down Decorative Quartz System is ideally suited for educational, health care, kennels, pharmaceutical and other facilities where sanitation and appearance are top priority.

#### ADVANTAGES

FT 830™ provides excellent resistance against chemical spills while providing a decorative, seamless surface without joints to harbor bacteria or dirt. Formulated with excellent resistance to a wide variety of harmful chemical spills while possessing good UV resistance.

#### RECOMMENDED USES

FT 830™ Trowel Down Decorative Quartz System can be used wherever a architectural decorative floor is preferred. Suitable for many commercial and industrial applications requiring good cleanability and wear resistance.

#### GENERAL DATA

<b>Application Temperature &amp; Humidity</b>	55°—90°F @ <75% RH
<b>Color</b>	Standard and Custom Tweed
<b>Percent Solids By Weight</b>	100%
<b>Pot Life</b>	30 minutes at 75°
<b>Cure Rate @ 75°F</b>	
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 <sup>6</sup> P.S.I.
Hardness Shore D Durometer	ASTM D-2240	86—89
Thermal Coefficient of Linear Expansion	ASTM D-696	3.75 x 10 <sup>-5</sup> in/in/°F
Indentation	MIL-D-3134F	None
Abrasion Resistance	ASTM D-1044 CS-17 Wheel	0.08 mg max

#### FEATURES

- Decorative and easy to maintain
- Good chemical resistance
- Good abrasion resistance
- VOC compliant
- Solvent-free / Odorless
- USDA accepted
- Smooth or anti-slip finishes
- Excellent UV light resistance

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## **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.

## **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 830™ Trowel Down Decorative Quartz 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.
3. *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, sur-

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face 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.

## 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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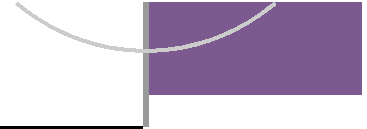
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#### BLEND RATIOS

<b>Sandstone</b> (index 532)	6 parts Light Beige 2 parts White 2 parts Tan	<b>Tweed</b> (index 525)	1 part Blue 2 parts Chocolate 5 parts White 2 parts Gray
<b>Monterrey Brown</b> (index 520)	1 part Chocolate 6 parts White 1 part Tan	<b>Ocean Blue</b> (index 526)	3 parts Blue 4 parts Buff 10 parts White 3 parts Gray
<b>Bucks County Tan</b> (index 521)	1 part Chocolate 4 parts White 5 parts Tan	<b>Sedona Red</b> (index 527)	2 parts Red 7 parts White 1 part Gray
<b>Canada Brown</b> (index 522)	1 part Chocolate 1 part Buff 2 parts White	<b>Desert Sand</b> (index 528)	1 part Red 1 part Buff 2 parts White
<b>Granite</b> (index 523)	2 parts Black 4 parts White 4 parts Gray	<b>Medocino Burgundy</b> (index 519)	7 parts Gray 3 parts Burgundy
<b>Slate</b> (index 524)	1 part Black 8 parts White 1 part Gray	<b>Seaweed</b> (index 529)	3 parts White 2 parts Green 3 parts Gray

*These blends are medium broadcast grains*