

### FT430 High Build Epoxy Slurry



#### DESCRIPTION

FT430 is a three-component 97% colored epoxy designed for use where a high build impact resistance is required. An excellent intermediate coating that is applied at 15-40 mils because it has excellent leveling properties and can be used before application of high build and broadcast system. Additionally, an aggregate may be added to increase impact or non-skid requirements.

#### ADVANTAGES

- Self leveling
- High physical properties
- Low odor
- Good impact resistance

#### RECOMMENDED USES

FT430 High Build Epoxy Slurry can be used in a thin mil and high build system where high impact and leveling properties are required:

- Auto dealerships
- Manufacturing productions
- Beverage plants

#### FOR BEST RESULTS

- For interior use only
- Not to be used when the relative humidity is greater than 75%
- Do not thin material
- Do not allow material to puddle
- Apply each coat within twenty-four hours of previous coat
- Discard any material subject to freezing
- Surface temperature must exceed 65°F
- New concrete must be cured for sixty days at least 65°F
- Allow each coat to dry tack free before coating
- Do not apply to structurally unsound surface

#### GENERAL DATA

|   |                              |
|---|------------------------------|
| <b>Application Temperature &amp; Humidity</b> | 55°—90°F @ 85% RH            |
| <b>Colors</b>                                 | Clear and colorant available |
| <b>Percent Solids By Weight</b>               | 97%                          |
| <b>VOC</b>                                    | 0.50 g/l                     |
| <b>Cure Rate @ 70°F</b>                       |                              |
| Recoat  | 4 to 6 hours                 |
| Foot Traffic                                  | 10 to 14 hours               |
| Light Traffic                                 | 24 hours                     |

#### TEST / PHYSICAL PROPERTIES

| Test                       | Description   | Values      |
|----------------------------|---|-------------|
| <b>Impact Resistance</b>   | Forward / Backward                                    | 160 in/lb   |
| <b>Abrasion Resistance</b> | Taber Abrasion CS-17 Wheel, 1000 cycles, 1000 gm load | .24 mg loss |
| <b>Gloss (60°F)</b>        |   | 85+         |
| <b>Hardness Shore D</b>    |   | 75          |
| <b>UV Light Resistance</b> | Q-U-V Accelerated Weather Tester                      | Fair        |

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## **COVERAGE**

Approximately 15 mils 105 sq. ft. per gallon  
25 mils 80 sq. ft. per gallon  
40 mils 40 sq. ft. per gallon

## **AVAILABLE COLORS**



*White (#437) Yellow (#436)*  
*Custom Colors (#438)*

## **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 coating. 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.

Do not thin this product. Addition of thinners will slow the curing times and reduce the ultimate coverage properties of this product. Critical window for the application of second coat times will also be affected.

## **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 coated and/or resurfaced must be checked to determine the presence of excess moisture or moisture vapors.

Moisture Test Options:

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 premeasured 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.

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## **SURFACE PREPARATION**

Substrate must be dry and all oil, grease, curing compounds, laitance and surface contaminants removed along with previously applied incompatible coating. Check with your FloorTech®/IFC Sales Representative to determine proper profile for recommended product systems.

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 durability 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 overlays.

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

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### **ICRI Guidelines**

|                       | <b>Dry Mil</b> | <b>Coating System</b>   |
|-----------------------|----------------|-------------------------|
| 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,<br>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 / overlay 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.