



## PRODUCT INFORMATION

### FT580 High Solids High Wear



#### DESCRIPTION

FT580 High Solids High Wear is a two-polyester component with high performance aliphatic urethane that combines aluminum oxides-ceramic to provide the ultimate in durability and chemical resistance. This product is available in clear and pigmented as well as high gloss and satin finishes.

#### ADVANTAGES

- High gloss formulation available
- Light stable
- FT580 can be used as a topcoat on other FloorTech® High Build systems to enhance chemical and abrasive resistance.
- Our most durable thin mil coating.

#### RECOMMENDED USES

- Aircraft hangars
- Automotive dealerships
- Warehouses
- Service centers
- Laboratories
- Chemical exposure areas

#### PACKAGING

Available in fifteen gallon units, clear or pigmented.

#### MIXING RATIOS

Two parts A to one part B and one part C.

#### COVERAGE RATE

Approximately First Coat: 300– 350 sq. ft./gallon  
Second Coat: 325–375 sq. ft./gallon

#### GENERAL DATA

<b>Application Temperature &amp; Humidity</b>	50° —90° F @ <75% RH
<b>Colors</b>	Clear and colors available
<b>Percent Solids By Weight</b>	
Clear	85% ± 1.0%
Color	90% ± 1.0%
<b>VOC</b>	352 g/l (Clear)
<b>Film Thickness</b>	First coat—3.1 Second coat—2.8 optional
<b>Cure Rate @ 70° F</b>	
Recoat	6 to 8 hours
Foot Traffic	10 to 14 hours
Full Cure	24 hours

#### TEST / PHYSICAL PROPERTIES

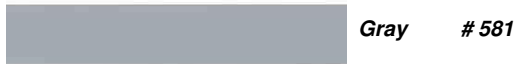
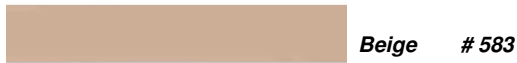
Test	Description	Values
<b>Impact Resistance</b>	Direct & Reverse	160
<b>Abrasion Resistance</b>	Taber Abrasion CS-17 Wheel, 1000 cycles, 1000 gm load	21 mg loss
<b>Gloss (60° F)</b>		<50
<b>Hardness</b>	Shore D	72
<b>UV Light Resistance</b>	Q-U-V Accelerated Weather Tester	Excellent

# FT580 High Solids High Wear

Product Information

Page 2 of 3

## AVAILABLE COLORS



**White (#587) Yellow (#586)**  
**Custom Colors (#588)**

## 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 the 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 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.

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Product Information

## SURFACE PREPARATION

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

The proper profile recommendation is important because it determines the thickness, 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.

### *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 / 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.

### **Rating key:**

- A - not recommended,
- B - 2 hour term splash spill,
- C - 8 hour term splash spill,
- D - 72 hour immersion,
- E - long term immersion.

NOTE: extensive chemical resistance information is available through your sales representative

<b>REAGENT</b>	<b>RATING</b>
acetic acid 5%	C
xylene	D
mek	B
methyl alcohol	B
gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	D
20% nitric acid	C
ethylene glycol	D