

FT560™ Chemical Resistant Urethane



DESCRIPTION

FT 560™ Chemical Resistant Urethane (CRU) is a two-component high performance, chemical resistant, light stable, aliphatic polyurethane available in clear and pigmented formulation in glossy or satin finish.

ADVANTAGES

- Resistant to chemical spills, resulting in reduced recoat and maintenance costs
- UV stable means less ambering
- Light stability
- Highly reflective
- Resistance to Skydrol (500) and other chemicals
- Easy to clean surfaces

PACKAGING

Available in 15 gallon kits

RECOMMENDED USES

- Aircraft hangars
- Car & truck dealerships

- Printing plants
- Manufacturing facility
- Food processing plants

FEATURES

- Finish characteristic of high gloss (80-100 at 60 degrees @ Erichsen glossmeter)
- FT560™ can be used as a topcoat on other FloorTech High Build systems to enhance chemical and abrasive resistance.

GENERAL DATA

Application Temperature & Humidity	50°—90°F @ <75% RH
Colors	Clear and colorant available
Percent Solids By Weight	
Clear	58% ± 1.0%
Color	65% ± 1.0%
VOC	375 g/l (Clear)
Film Thickness	First coat—2.8 Second coat—2.7 optional
Cure Rate @ 70°F	
Recoat	4 to 8 hours
Foot Traffic	14—24 hours
Full Cure	3—5 days

TEST / PHYSICAL PROPERTIES

Test	Description	Values
Impact Resistance	Forward: 200 lb inch Backward: 175 lb inch	Passes Passes
Abrasion Resistance	Taber Abrasion CS-17 Wheel, 1000 cycles, 1000 gm load	28 mg loss
Gloss (60°F)		95
Hardness D		72
UV Light Resistance	Q-U-V Accelerated Weather Tester	Excellent

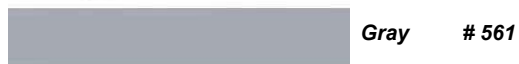
FT560™ Chemical Resistant Urethane

Product Information

Page 2 of 3

(Continued from page 1)

AVAILABLE COLORS



White (#567) Yellow (#566)
Custom Colors (#568)

TYPICAL PHYSICAL DATA

Color	Clear or with Added Pigment	ASTM
Viscosity	Mixed= 200-400 cps (typical most colors)	
% Solids by Weight	Mixed = 60% Colors 56% Clear (± 2%)	
VOC	< 3.8 pounds per gallon	
Hardness	Shore D = 72	
Gloss @ 60°	80-100 (high gloss)	
Recommended Mil Thickness	<u>Clear</u> Wet: 3 – 5 mils/ coat Dry: 2— 3 mils/ coat	
Shelf Life	1 Year	

COVERAGE RATE

First Coat: 300—350
Second Coat: 325—375

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 contains solvent 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.

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.

FT560™ Chemical Resistant Urethane

Product Information

Page 3 of 3

(Continued from page 2)

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, 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.

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.

Charlotte 13732 Statesville Road Huntersville, NC 28078 (800) 955-0078 (704) 948-5535 Fax (704) 948-7552

Tampa 7824-A Causeway Blvd. Tampa, FL 33619 (800) 390-7727 (813) 635-0004 Fax (813) 635-0244

Atlanta Industrial Floor Coating 3375 Hutchinson Road B-1 Cumming, GA 30040 (800) 955-1580 (770) 844-0552 Fax (770) 844-0553

www.floortechinc.com

FloorTech, Inc.

Version Date: 9/17/02

