

FT530 Moisture Cured Urethane



DESCRIPTION

FT530 Moisture Cured Urethane is an oil-free, clear, moisture cure urethane coating for concrete floors. Can be used as clear or in combination with FloorTech®'s Color Add to provide a variety of different colored floors.

ADVANTAGES

- Wears up to five times longer than ordinary coatings and sealers
- Provides exceptional durability
- Resists oil, grease and many other chemical spills
- Exhibits light reflectivity properties
- Glossy finish extends useful life of floors and reduces maintenance costs

RECOMMENDED USES

- Warehouse
- Manufacturing facilities
- Retail outlets
- Storage centers

PACKAGING

Available in five and fifty-five gallon units.

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 at least 65°F
- Allow each coat to dry tack free before coating
- Do not apply to structurally unsound surface

GENERAL DATA

Application Temperature & Humidity	55°—90°F @ <75% RH
Colors	Clear and colorant available
Percent Solids By Weight	45% ± 1.0%
VOC	403 g/l (Clear)
Film Thickness	First coat—2.2 Second coat—2.1
Cure Rate @ 75°F	
Recoat	6 to 8 hours
Foot Traffic	10 to 12 hours
Heavy Traffic	24 hours

TEST / PHYSICAL PROPERTIES

Test	Description	Values
Impact Resistance	Forward / Backward	160
Abrasion Resistance	Taber Abrasion CS-17 Wheel, 1000 cycles, 1000 gm load	22 mg loss
Gloss (60°F)		90
Hardness D		45
UV Light Resistance	Q-U-V Accelerated Weather Tester	Fair

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COVERAGE

Initial Coat: 300-330 sq. ft. per gallon.

Second Coat: 330-375 sq. ft. per gallon.

AVAILABLE COLORS



White (#537) Yellow (#536)
Custom Colors (#538)

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 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 of 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.

SURFACE PREPARATION

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.

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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.