FloorTech Inc.

PRODUCT INFORMATION

FT630™ Enviro Water Based Urethane

DESCRIPTION

FT 630™ Enviro Water Based Urethane is a two-component water based urethane is non-yellowing and has a highly abrasion resistant properties. It is available in clear or color.

ADVANTAGES

- VOC compliant
- Low odor
- High light reflection
- Light stable

RECOMMENDED USES

- Concrete floors where low odor, abrasion resistance and light stability are a must.

PACKAGING

Available in ? Gallon and 8 gallon units. Can be pigmented with FloorTech pigment.

COVERAGE RATE

325—400 sq. ft. per gallon

GENERAL DATA

Application Temperature & Humidity	55°—90°F @ <75% RH
Colors	Clear and pigmented available
Percent Solids By Weight	48% ± .1.0%
Film Thickness	First coat—2.4 Second coat—2.1
Gloss	**Excellent**
Cure Rate @ 75°F	
Recoat	4 hours
Foot Traffic	24 hours
Fork Traffic	48 hours

TEST / PHYSICAL PROPERTIES

Test	*Description*	*Clear*	*Pigmented*
Abrasion Resistance	Taber Abraser: CS-17 wheel, 1000 cycles, 1000 gm load	22 –25 mg loss	25 mg loss
UV Light Resistance	Q –U –V Accelerated Weather Tester	Excellent	Excellent

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.

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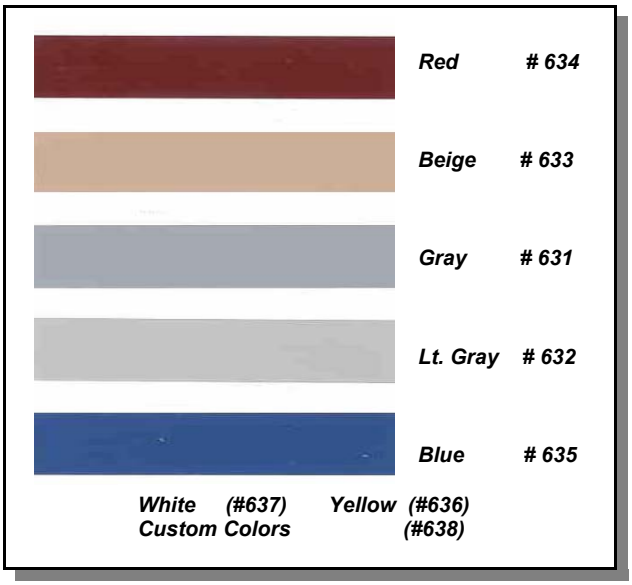
AVAILABLE COLORS



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.

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 overlaymants.

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

ICRI Guidelines

	Dry Mil	Coating System
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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Chemical Resistance Guide

The following Chemical Resistance Guide will aid in determining the effect of various chemicals to FT 630™ Enviro Water Based Urethane. Results are based on a 24 hour spot test under a watch glass sealed with paraffin wax @ 77°F. The product tested was mixed and applied to a panel primed in accordance to the manufacturer's standard specifications. The coating was allowed to cure for a minimum of 7 days @ 77°F prior to testing. Ratings for the pigmented version are based on the standard clear combined with FT Gray Pigment. A rating system for this guide is as follows:

Organic Acids

Acetic	5%	E	E
Acetic	10%	NR	E
Acetic	20%	NR	G
Acetic	Glacial	NR	G
Butyric	10%	F	E
Citric	10%	E	G
Citric	50%	E	G
Cresylic	10%	F	F
Formic	10%	NR	E
Lactic	10%	E	E
Lactic	25%	G	G
Maleic	30%	F	F
Maleic	60%	NR	F
Monochloro Acetic	5%	NR	G
Monochloro Acetic	10%	NR	F
Oleic	Sat.	F	F
Oxalic	Sat.	F	F
Picric	Sat.	F	F

Inorganic Acids

Phospho-ric	35%	F	F
Phospho-ric	75%	NR	NR
Sulfuric	25%	F	F
Sulfuric	50%	NR	NR
Sulfuric	70%	NR	NR
Sulfuric	Conc.	NR	NR

Ketones - Esters

Acetone	100%	F	F
Amyl Acetate	100%	G	G
Butyl Acetate	100%	F	F
Ethyl Acetate	100%	F	E
Methyl Ethyl Ketone	100%	F	E
Methyl Isobutyl Ketone	100%	F	G
PM Acetate	100%	F	G

Alcohols

Diacetone Alcohol	100%	NR	NR
Ethyl Alcohol	100%	G	E
Ethylene Glycol	100%	G	E
Glycerine	100%	E	E
Isopropyl Alcohol	100%	G	E
Methyl Alcohol	100%	E	E
Phenol	5%	NR	NR
Triethylene Glycol	100%	G	G

Alkalies & Salts

Aluminum Chloride	50%	E	G
Ammonium Chloride	50%	E	G
Ammonium Hydroxide	10%	G	E
Ammonium Hydroxide	20%	G	E
Ammonium Hydroxide	50%	G	E
Ammonium Nitrate	Sat	F	F
Ammonium Persulfate	Sat.	F	F
Ammonium Sulfate	Sat.	F	F
Calcium Chloride	50%	G	G
Calcium Hydroxide	Sat.	G	G
Calcium Hypochlorite	15%	G	G
Ferric Chloride	Sat.	F	F
Ferric Sulfate	Sat.	F	F
Potassium Hydroxide	40%	G	G
Sodium Bicarbonate	Sat.	G	G
Sodium Bisulfate	Sat.	G	G
Sodium Carbonate	Sat.	G	G
Sodium Chloride	20%	E	G
Sodium Hydroxide	10%	G	G
Sodium Hydroxide	50%	F	F
Sodium Hypochloride	10%	G	G
Sodium Sulfate	Sat.	G	G
Sodium Sulfide	Sat.	G	G
Trisodium Phosphate	10%	E	E
Trisodium Phosphate	Sat.	G	G

Ratings Key

E– Excellent
G– Good
F– Fair
NR– Not Recommended

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Solvents—Aliphatic

Gasoline	100%	E	E
Hexane	100%	F	F
Jet Fuel A-1	100%	E	E
Mineral Spirits	100%	E	E
Naphtha	100%	G	G

Solvents—Chlorinated

Methylene Chloride	100%	NR	NR
Perchlorethane	100%	G	G
1,1,1 Trichloroethane	100%	F	F
Trichloro-ethylenne	100%	F	E

Solvents—Aromatic

Benzene	100%	G	G
Chloroben-zene	100%	F	F
SC-100	100%	E	E
Toluene	100%	F	F
Xylene	100%	G	E

Auto– Brake / Hydraulic Fluids

Brake Fluid	100%	NR	F
Hy-Jet Fuel #3	100%	F	F
Motor Oil	100%	E	E
Skydrol 500A	100%	F	F
Skydrol 500B	100%	F	F
Transmission Fluid	100%	E	E

Miscellaneous Chemicals

Acrylonitrile	100%	NR	NR
Aniline	100%	NR	NR
Beer	100%	G	G
Bromine	100%	NR	NR
Butyl Lactate	100%	G	G
Carbon Disulfide	100%	F	F
Carbon Tetrachloride	100%	F	F
Chloroform	100%	NR	NR
Cola	100%	E	E
Corn Oil	100%	G	G
Cyclohexane	100%	G	G
Cyclohexanone	100%	G	G
Diethyl Phthalate	100%	G	G
Dimethyl Phthalate	100%	G	G
Ethylene Dichloride	100%	G	E
Formaldehyde	100%	G	G
Fruit Juice	100%	G	G
Grease	100%	E	E
Hydrogen Peroxide	10%	E	E
Ketchup	100%	E	G
Lanoline	100%	G	G
Lard	100%	G	G
Linseed Oil	100%	G	G
Mayonnaise	100%	G	G
Methyl Salicylate	50% in Toulene	NR	NR
Milk	100%	G	G
Mustard	100%	G	G
2 Nitro Propane	100%	F	F
Pyridine	100%	NR	NR
Sugar	Sat.	E	E
Tannic Acid	Sat.	G	G
Tartaric Acid	Sat.	G	G
Tide Solution	2%	G	G
Triacetin	100%	G	G
Triethanolamine	100%	G	G
Turpentine	100%	G	G
Water	100%	G	G
Wine	100%	F	F

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