EXCELLENCE IN POLYMER FLOORING

FloroWear 7100

High Traffic Urethane

Product Description: FloroWear 7100 is a chemical resistant, thin film urethane that provides outstanding protection to concrete floors subjected to very high levels of indoor traffic. Its color stable satin finish provides 50% greater wear resistance than conventional urethanes, allowing even heavily trafficked areas to look great longer. FloroWear 7100 may be field-tinted with Florock Colorants.

Typical Uses, Applications: An ideal low sheen topcoat over a variety Florock Systems in busy industrial, commercial and institutional settings where additional durability and excellent abrasion-resistance is desired, such as:

- Hospitals, clinics, laboratories
- Food processing plants
- Schools and universities
- Detention and public safety buildings
- Warehouses and logistics operations
- Manufacturing plants, research departments
- Aviation and transportation facilities
- Hospitality and restaurants
- Grocery stores and retail establishments

Product Advantages

- Excellent abrasion and wear resistance
- Outstanding chemical resistance
- Light stable, aliphatic, non-ambering
- Good thermal shock properties
- Low sheen with very mild, cleanable texture
- USDA, FDA, EPA, OSHA and ADA compliant
- Can contribute to LEED Green Building Credits
- Tintable with Florock Colorants

Packaging

- FloroWear System 7100:
  4.5 Gallon OverPack
- Optional Florock Colorant:
  1-2 Pints per OverPack of FloroWear 7100
  (consult Florock Colorant technical data sheet for usage chart.)

Storage: All containers should be stored at 40° F to 95°F, be kept tightly sealed and out of direct sunlight

Cured Physical Properties		
Property	**Test Method**	**Results**
Abrasion Resistance, Taber Abrader CS-17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	7 mg loss
Sward Hardness	ASTM D2240	40
Coefficient of Friction – James Friction Tester	ASTM D2047	0.65
Tensile Strength	ASTM D2370	2,250 psi
Percent Elongation	ASTM D2370	5%
Percent Elongation (Resin Only)	ASTM D2370	6%
Dry Film Thickness	ASTM D1005	2.9 mils

Coverage

- FloroWear 7100:
  500–525 SF/gallon, one coat applied over primer or base/grout coat

Surface Preparation

New concrete must have a 28 day cure and preferably a broom swept finish. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the MVT test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" data sheet for more information on preparation and MVT before proceeding.

Note: FloroWear 7100 should not be applied when floor temperature is above 90° F or below 55° F, or when within 5° F of the dew point.

Primer Application

Once surface preparation is complete, apply selected Florock primer and basecoat(s) to the concrete floor in accordance with system technical data sheet instructions.

Note: FloroWear 7100 must be applied over a smooth FloroPoxy surface. If the surface is not smooth, additional applications of FloroPoxy are necessary. Only one finish coat is required.

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net

Note: Primer cure time will vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.

FloroWear 7100 Topcoat Application

1. Combine and blend entire kit contents of Parts A and B for 3 minutes using a Jiffy mixer blade with slow speed drill. Continue mixing and add Part C. For a pigmented coating, add 2-4 pints (see colorant usage chart in colorant tech data) of Florock Colorant to each 4.5 gallon kit of FloroWear 7100. Remix for 3-5 minutes.

2. Apply at a rate of 500-525 SF/gallon to achieve 2.9 to 3.0 wet mils, using a solvent- resistant, medium nap roller out of a roller pan. Take care to cross-roll product and to achieve the target spread rate. Roll out drips and blemishes immediately.

Note: DO NOT use high capacity rollers (like Wooster's prodoo-z). They can leave roller marks in the coating. DO USE a polyester normal capacity roller cover (3/8" nap roller). These are typically available at most hardware stores. For more details contact your Florock Representative.

3. If additional slip-resistance is required, broadcast the desired grit size of White Aluminum Oxide into the wet primer, basecoat or topcoat (typically, #60 or #80 grit Aluminum Oxide into the final wet topcoat of FloroWear 7100) at a rate of 4-15 lbs./1,000 SF.

Note: Excessive grit can make cleaning difficult.

4. Allow final topcoat to cure for 24 hours before opening floor to light foot traffic.

Chemical Resistance

Reagent	7 Days
Hydrochloric Acid 10%	E
Hydrochloric Acid 30%	E
Nitric Acid 10%	E
Phosphoric Acid 50%	G
Sulfuric Acid 37%	E, S
Acetic Acid 10%	E
Citric Acid 10%	E
Oleic Acid	E
Ammonium Hydroxide 10%	E
Sodium Hydroxide 50%	E
Ethylene Glycol (Antifreeze)	E
Isopropyl Alcohol	E
Methanol	E
D-Limonene	E
JP-4 Jet Fuel	E
Methylene Chloride	P
Methyl Ethyl Ketone	E
PMA	E
Ammonium Nitrate 20%	E
Brake Fluid	E
Bleach	E
Motor Oil (SAE30)	E
Skydrol® 500B	E
Sodium LD4	E
Sodium Chloride 20%	E
Tide Laundry Soap 1%	E
Trisodium Phosphate 10%	E
Gasoline	E
Mineral Spirits	E
Xylene	E

Spot Test, ASTM D1308; Pencil Hardness Test, ASTM D3363. Results based on 7 day spot testing on concrete. System cured 7 days prior to testing.
Rating Scale:
E – Excellent. No change in pencil hardness
G – Good. 1-2 units change in pencil hardness
F – Fair. 3 units change in pencil hardness
P – Poor. 4 or more units change in pencil hardness
S – Stains

THIS MATERIAL IS NOT RECOMMENDED FOR SPRAY APPLICATIONS.

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net

Instructions for Use over Existing Coatings
1. Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed and edges should be sanded to a feathered edge.

2. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants.

3. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, and wipe with xylene to ensure good adhesion of the new system. Any bare concrete should be mechanically prepared and primed with appropriate Florock primer.

Note: To ensure compatibility of FloroWear 7100 with existing coating, a test patch should be approved prior to installation and used as the job standard.

Note: Do not apply moisture cure urethanes when:
- *Relative humidity is over 85%*
- *Dew Point in the area to be coated is within 5° F of the slab temperature*
- *Temperatures are below 55° F or above 90° F.*
- *Substrate has passed its recoat window without re-prep.*

Maintenance
Vacuum or sweep regularly to remove dust and debris. Clean on a regular basis with a surfactant-type mild detergent. Florock floors never need waxing.

Liquid Physical Properties				
Property	**Test**	**Part A R0-144**	**Part B R0-145**	**Part C I-80 Flour**
Weight per Gallon	ASTM D1475	10.9 lbs	8.8 lbs	15.1 lbs
N.V.W.	ASTM D2369	100%	20.9%	100%
Viscosity	ASTM D2196	990 cps	42 cps	N/A

Blended Components		
Property	**Test**	**Result**
Flash Point	ASTM D3278	190º F
Blended Viscosity (A + B)	ASTM D2196	600 – 700 cps
Recommended Spread Rate	NA	500-525 SF per gallon
VOC Maximum	ASTM D3960	45 gpl
Dry Film Thickness	ASTM D1005	2.9 mils
Solids by Weight / Volume	ASTM D2369	95.6% / 93.4%
Weight per Gallon	ASTM D1475	13.12 lbs.

Please read safety data before using product.

DISCLAIMER
All statements and recommendations above are based on experience we believe to be reliable. The use or application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net