

## FloroWear 7100

### High Traffic System

**Product Description:** FloroWear 7100 is an excellent protective coating for high traffic floors because of its high chemical and wear resistant properties. It provides 50% greater wear resistance than conventional urethanes. FloroWear 7100 is also an attractive floor finish that maintains a low sheen, amber resistant appearance over time. It makes floors easier to clean and prevents concrete dusting.

**Typical Uses and Applications:** Ideally suited for commercial, light industrial and institutional applications, such as:

- Hangar floors
- Auto & motorcycle dealerships
- Loading docks
- Aisleways
- Ramps

**Product Advantages:**

- Light stable, 100% Aliphatic
- Provides excellent chemical resistance
- Outstanding strength and durability
- Excellent wearing properties
- Low sheen finish with pumice-like texture
- Quick turnaround time
- USDA, FDA, OSHA, and EPA Compliant
- A variety of colors can be achieved with the addition of Florock Universal Colorants

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

Cured Physical Properties		
Property	Test Method	Results
Sward Hardness	ASTM D2240	40
Tensile Strength	ASTM D2370	2,250 psi
Abrasion Resistance, Taber Abrader CS-17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	7 mg loss
COF- James Friction Tester	ASTM D2047	0.65
Percent Elongation	ASTM D2370	5%
Percent Elongation (resin only)	ASTM D2370	6%
Dry Film Thickness	ASTM D1005	2.93 mils

**Coverage:**

- **FloroWear 7100**  
500 SF/gallon  
1 Coat Required

**Packaging:**

- **FloroPoxy 4700 Primer**  
4 Gallon Over Pack  
20 Gallon Pail Set  
220 Gal Drum Set
- **FloroWear System 7100**  
4.5 Gallon Over Pack
- **Optional Universal Colorant**  
2-4 qts per kit for pigmented FloroWear (Consult colorant usage charts.)

**FloroWear 7100 Application:** FloroWear 7100 must be applied over smooth Floropoxy Primer. If the surface is not smooth, additional applications of Floropoxy are necessary. Only one finish coat is required.

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

**1. Primer Application:** Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container, blend 3 parts by volume of component A and 1 part by volume of component B. Mix only the amount that can be applied during the working time. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the container to a transport container. Remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten the pot life. Using a 1/8" V notched squeegee, apply primer at a rate of 160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading.

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

**IMPORTANT: Flooring surface must be smooth before proceeding with FloroWear 7100. Reapply Floropoxy 4700 Primer as necessary to create a smooth surface.**

**2. FloroWear 7100 Application:** Combine the entire contents of parts A and B. Blend well using a low speed mechanical mixer, then continue mixing and add part C. If colorant is desired, add 2-4 qts. of Florock Universal Colorant and remix for approximately 3-5 minutes (See Color Usage Chart).

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

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

## FloroWear 7100

### High Traffic System

Apply material at an approximate rate of 500 to 525 square feet per gallon to achieve 2.9 to 3.0 wet mils, using a solvent-resistant, medium nap roller out of a roller pan. If skid resistance is desired, broadcast #36, #60 or #80 White Aluminum Oxide into the coat at a rate of 3-6 lbs per 1000 SF and backroll. Excessive grit may make cleaning difficult. Take care to cross-roll product and to achieve the target spread rate. Roll out drips and blemishes immediately.

***THIS MATERIAL IS NOT RECOMMENDED FOR SPRAY APPLICATIONS.***

*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.*

#### **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. Edges where loose coating has been removed 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 Floropoxy 4700.

*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:** Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant-type mild detergent. Florock floors never need waxing.

**Please read Safety Data Sheets before using products.**

**DISCLAIMER:** All preceding statements and recommendations 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.

<b>Blended Components</b>		
<b>Property</b>	<b>Test</b>	<b>Result</b>
Flash Point	ASTM D3278	190° F
Blended Viscosity, (A&B)	ASTM D2196	600 – 700 cps
Recommended Spread Rate		500 SF/gallon
VOC Maximum	ASTM D3960	45 gpl
Dry Film Thickness	ASTM D1005	2.95 mils
Solids by Weight/ Volume	ASTM D2369	95.6% / 93.4%
Weight Per Gallon	ASTM D1475	13.12 lbs.

<b>Liquid Physical Properties</b>				
<b>Property</b>	<b>Test</b>	<b>Part A R0-144</b>	<b>Part B R0-145</b>	<b>Part C I-80 Flour</b>
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