FloroWear System 7100
Urethane High Traffic System

Product Description:
FloroWear 7100 is an extremely durable protective coating system for high traffic floors due to its high chemical and wear resistant properties. It can be installed over existing coatings that are well bonded and properly prepared. It provides 50% greater wear resistance than conventional urethanes. The FloroWear 7100 Urethane High Traffic System is also an attractive floor finish that maintains a low sheen appearance that is resistant to yellowing. It makes floors easier to clean and prevents concrete dusting.

Typical Uses, Applications:
Ideally suited for high traffic areas which are exposed to chemicals or direct sunlight, such as:
- Aisleways
- Warehouses
- Loading docks
- Traffic lanes
- Ramps

Product Advantages:
- Light stable, 100% Aliphatic
- Provides enhanced chemical resistance
- Excellent wearing properties
- Low sheen finish with pumice-like texture
- Quick turnaround time
- A variety of colours can be achieved with the addition of Florock Universal Colourants

Packaging:
Floropoxy 4700 Primer
2 - part A & B. 15.14 ltr pack when mixed
Mix ratio 3:1 by volume

FloroWear System 7100 –
- 3 part A,B & C 17 ltr Over Pack

Optional Universal Colourant –
- 2-4 units (1 unit = 0.95 ltr) per pack for pigmented FloroWear

(Consult colourant usage charts.)

Cured Physical Properties		
Sward Hardness	**ASTM D2240**	**40**
Tensile Strength, PSI	**ASTM D2370**	**15.5 N/mm^2**
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**	**75 microns**

Coverage:
FloroWear 7100 – 12m²/ltr @ 75 microns dft
1 Coat Required

Storage:
All containers should be stored between 16° C to 30° C in a dry area and be kept tightly sealed and out of direct sunlight.

FloroWear 7100 Application: FloroWear 7100 must be applied over smooth Floropoxy 4700 Primer. If the surface is not smooth, additional applications of Floropoxy 4700 are necessary. Only one finish coat is required.

Note: Floropoxy should not be applied when the floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

Primer Application:
In a clean, dry container, blend 3 parts by volume of Resin Part A with 1 part by volume of Activator Part B. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch 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 flat or 3mm notched squeegee, apply at desired thickness. Backroll with a 10mm nap roller.

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. Re-apply 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 colourant is desired, add 2-4 units of Florock Universal Colourant and remix for approximately 3-5 minutes (See Colour Usage Chart.). Apply material at an approximate rate of 12m²/ltr, using a solvent-resistant, medium nap roller. If slip resistance is desired, broadcast #36,#60 or #80 White Aluminum Oxide into the coat at a rate of 1-3 kgs per 90m² 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.

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

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Instructions for Use over Existing Coatings

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

2. 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 solvent free wipes 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.

Notes: Do not apply moisture cured urethanes when:
- Relative humidity is over 85%
- Dew Point in the area to be coated is within 3° C of the slab temperature
- Temperatures are below 12° C or above 32° C
- 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 to be waxed.

Liquid Physical Properties				
Component Property	Test Method	Part A R0-144	Part B R0-145	Part C I-80 Flour
Weight Per litre	ASTM D1475	1.31kg	1.05kg	1.81kg
N.V.W.	ASTM D2369	100%	20.9%	100%
Viscosity	ASTM D2196	990 cps	42 cps	N/A

Blended Components		
Flash Point	ASTM D3278	87º C
Blended Viscosity, (A&B)	ASTM D2196	600 – 700 cps
Recommended Spread Rate		12 m²/ltr
VOC Maximum	ASTM D3960	45 gpl
Dry Film Thickness	ASTM D1005	75 microns
Solids by weight/volume	ASTM D2369	95.6% / 93.4%
Weight Per Gallon	ASTM D1475	1.58 kg

Please read material safety data before using product.

DISCLAIMER:
All preceding statements and recom-mendations 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 of 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.