

PRODUCT DESCRIPTION

FP ULTRA FLOW LV 100 is a special-grade, two-component, 100% solids low-viscosity epoxy designed for professional concrete floor coating systems. Its self-leveling formula flows easily across properly prepared surfaces to create a smooth, seamless, high-gloss finish with strong adhesion, excellent mechanical properties, and good chemical resistance. FP ULTRA FLOW LV 100 may be used with solid-color pigments or metallic powders to create opaque and decorative finishes. It is suitable for commercial, industrial, institutional, and residential floors requiring a durable, refined appearance.

KEY BENEFITS

- Low-viscosity, self-leveling application
- Dense, seamless surface resistant to moisture
- Excellent adhesion to prepared concrete
- Strong intercoat adhesion for multi-layer systems
- Low odor and very low VOC content
- May be applied to properly prepared plywood

PRIMARY APPLICATIONS

- Decorative and metallic flooring systems
- Industrial facilities and warehouses
- Commercial and retail spaces
- Institutional and educational buildings
- Healthcare and residential projects
- Showrooms and high-gloss interior floors

PACKAGING AND TECHNICAL DATA

Property	FP ULTRA FLOW LV 100
Kit Size	3 US gallon kit
Components / Color	Part A: 2 gallons, color upon request Part B: 1 gallon, clear to amber
Mix Ratio by Volume	2A : 1B
Recommended Thickness	Primer: 6-8 mils Finish coat: 8-12 mils
Coverage	At 8 mils: approximately 200 sq. ft./gal At 32 mils: approximately 50 sq. ft./gal
Gel Time at 77°F	100 g sample: 45-60 minutes 1.5 gallons: 15-20 minutes
Solids / VOC	100% solids by weight and volume Mixed VOC: 45 g/L
Mixed Viscosity at 77°F	650-750 cP
Shelf Life	12 months unopened; protect from temperature extremes

PHYSICAL PROPERTIES

Property / Test Method	Typical Result
Bond Strength - ASTM D4541	>300 psi (substrate rupture)
Water Absorption - ASTM D570	0.3%
Abrasion Resistance - ASTM D4060	0.10 g (CS17, 1000 g, 1000 cycles)
Hardness - ASTM D2240, Shore D	85-90
Tensile Strength - ASTM D638	6,500 psi
Compressive Strength - ASTM D695	11,000-12,500 psi
Elongation - ASTM D638	6.7%
Coefficient of Friction - ASTM D1894	0.5-0.7
Fire Rating - ASTM E84	Flame spread: 5 Smoke developed: 94 (Class A)

Typical values are based on laboratory testing and are not intended as guaranteed specifications. Field conditions, substrate profile, temperature, humidity, and application technique may affect performance.

CURING DETAILS

Temperature	Foot Traffic	Light Traffic	Full Cure	Over Primer	Second Coat
50°F	30 hours	5 days	10 days	N/A	30 hours-3 days
68°F	24 hours	3 days	7 days	12 hours-2 days	24 hours-2 days
86°F	16 hours	2 days	5 days	6 hours-1 day	16 hours-1 day

SURFACE PREPARATION

Existing Concrete. The surface must be clean, sound, dry, and mechanically prepared by shot blasting, abrasive blasting, or diamond grinding. Remove all oils, sealers, curing compounds, waxes, fats, laitance, and other bond-breaking contaminants. Do not apply to wet substrates. Check chloride, moisture, and pH conditions before application. Prime porous concrete with a compatible Florida Polymer epoxy primer. Repair cracks, spalls, and surface imperfections with a compatible Florida Polymer repair material before coating.

New Concrete. Allow new concrete to cure for a minimum of 30 days. Concrete should achieve at least 3,625 psi compressive strength after 28 days and at least 218 psi tensile pull-off strength. Mechanically prepare the surface to remove laitance and create the profile required for the coating system. Prime porous surfaces and repair cracks or imperfections before application.

MIXING

Pre-condition materials to at least 50°F before use. Mix each component separately for a minimum of 2 minutes to evenly suspend solids. Pour Part B into Part A at the required 2A:1B volume ratio and mix for at least 3 minutes with a low-speed drill at 300-450 rpm. Scrape the bottom and sides of the container at least once to ensure a homogeneous blend. For metallic applications, first mix the metallic pigment completely into Part A, then add Part B and mix for at least 3 minutes. Mix only the amount that can be installed within the available working time.

APPLICATION

Apply the mixed product evenly to the prepared surface using a rubber squeegee or gauge rake, then back-roll to obtain a uniform coating. Avoid puddles and excessive build-up.

CLEANING

Clean tools and equipment immediately with a cleaner suitable for epoxy materials. Wash exposed skin carefully with warm, soapy water. Once cured, the product can be removed only by mechanical means.

RESTRICTIONS

- Substrate temperature must remain between 59°F and 86°F during application and curing.
- Maximum relative humidity during application and curing is 85%.
- Substrate moisture content must be below 4% when the coating is applied.
- Do not apply to porous surfaces where moisture transmission may occur during application.
- Avoid exterior use on substrates at ground level unless the complete system is approved for that exposure.
- Protect from moisture, condensation, and water during the first 24 hours of cure.
- Color may change in areas exposed to regular ultraviolet light.

HEALTH AND SAFETY

Avoid skin and eye contact and do not breathe vapors. Wear safety glasses, chemical-resistant gloves, protective clothing, and appropriate respiratory protection when ventilation is inadequate. Use only in a properly ventilated area. In case of skin contact, wash with soap and water. For eye contact, rinse immediately with water for at least 15 minutes and obtain medical attention. If respiratory irritation occurs, move the affected person to fresh air. Remove contaminated clothing and wash before reuse. Consult the Safety Data Sheet before handling or use.

IMPORTANT NOTICE

The statements, recommendations, and technical information in this document are believed to be accurate and reliable. The data applies only to the material identified and may not remain valid when used with other materials or under conditions outside the manufacturer's control. The user is responsible for confirming product suitability, performing job-site testing, and following the current Safety Data Sheet and application instructions. Florida Polymer Products Corp. assumes no liability for direct, indirect, consequential, economic, or other damages beyond replacement of the product or refund of the purchase price as provided in the applicable purchase agreement.