Floorguard Products

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HyperFLOW

METALLIC EPOXY BINDER

PRODUCT OVERVIEW

HyperFLOW is a high-performance epoxy resin designed to enhance pigment movement and create striking, glass-like effects, this binder delivers the perfect balance of clarity, flow, and working time designed to deliver stunning metallic finishes with exceptional durability. Formulated with 100% solids, this binder provides a solvent-free, low-odor solution that ensures superior adhesion, chemical resistance, and long-lasting performance. Optimized viscosity promotes smooth, effortless pigment dispersion—ideal for creating waves, cells, veins, and three-dimensional effects. Its self-leveling properties create smooth, seamless surfaces that enhance the visual impact of metallic pigments, producing a high-gloss, dimensional, and reflective finish. It is compatible with Floorguard's range of metallic pigments, allowing for infinite design possibilities.

KEY FEATURES

- Low VOC Formulation
- Low Odor
- Extreme Flowability
- Extended Working Times
- Low Viscosity
- High Gloss Reflective Finish
- High Compressive Strength
- Chemical & Impact Resistant
- Superior Adhesion
- Optimal Pigment Dispersion

COLOR OPTIONS

CLEAR

APPLICATION CONSIDERATIONS

- Surface should be primed with a pigmented basecoat prior to HyperFLOW Metallic application
- Gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to spectrum wavelength lighting and UV
- Slab on grade requires moisture barrier
- Will not bridge substrate cracking

PHYSICAL CHARACTERISTICS

SOLIDS CONTENT	100%
VOLUMETRIC MIX RATIO	2A:1B
VISCOSITY	550-650 cps
POT LIFE 1.5 GAL MASS	30 Minutes @ 70°F
WORKING TIME	40-45 Minutes @ 70°F
TACK FREE	8-12 Hours @ 75°F
RECOAT WINDOW	8-24 Hours @ 75°F
LIGHT FOOT TRAFFIC	24 Hours @ 75°F
FULL CURE	5 Days
APPLICATION TEMPERATURE	50°F - 90°F | RH <85%
COVERAGE RATE	50 ft²/gal @ 32 Mils WFT
SHELF LIFE UNOPENED	1 Year
PACKAGING	3 Gallon Kit | 15 Gallon Kit

TECHNICAL PROPERTIES

KONIG HARDNESS	ASTM D4366	120
COMPRESSIVE STRENGTH	ASTM D695	9,800 psi
TENSILE STRENGTH	ASTM D638	5,200 psi
ELONGATION	ASTM D638	30%
WATER ABSORPTION	ASTM D570	<0.5%
ADHESION	ASTM D4541	600 psi | Concrete Failure
ABRASION RESISTANCE CS-17 WHEEL, 1000G LOAD, 500 CYCLES	ASTM D4060	36 mg loss
IMPACT RESISTANCE	ASTM D2794	PASS

CHEMICAL RESISTANCE

Refer to Floorguard Products Chemical Resistance Chart.

REQUIREMENTS

- The substrate should have a compressive strength of at least 3,500 psi
- The substrate should have a Moisture Vapor Emission Rate (MVER) of less than 3 lbs per ASTM F1869 and a Relative Humidity (RH) below 80% per ASTM F2170. When using a Tramex concrete moisture meter, the moisture content should be under 4%
- The substrate should have a pH level in the range of 6 to 9.
- Concrete must be structurally sound and free of all contaminants and bond breakers.
- Concrete should be mechanically prepared and profiled to achieve a Concrete Surface Profile (CSP) between levels 2 and 4, in accordance with ICRI 310.2R
- Mask all perimeter areas to protect surfaces at coating terminations. Saw-cut and key all termination points as required.
- Ensure all depressions, divots, and cracks are properly profiled, cleaned of dust and contaminants, and repaired to prevent defects from showing through the coating.
- Preserve all dynamic joints, while static joints can be filled. When necessary, use dynamic joints as starting and ending points during the application process.
- Ambient and substrate temps should be above 50°F and a minimum of 5°F above Dew Point.
- Product temps should be between 70-80°F.
- Ambient relative humidity should not exceed 80% during coating application.

PRECAUTIONS

- Refer to Safety Data Sheets (SDS) for safety precautions.
- Safety precautions must be followed during storage, handling, and use.
- Personal Protective Equipment (PPE) shall be worn at all times of the application process including but not limited to long sleeve shirts, safety glasses, nitrile gloves and properly fitted NIOSH respirators.
- All sources of ignition must be turned off, and the area should be properly and adequately ventilated during both the application and curing processes.
- The mixing area should be located on or near the project site and securely covered with plastic, cardboard, or a tarp to protect against drips and spills.
- Stage all materials, tools, and cleaning supplies in a shaded area—out of direct sunlight—within the mixing area before beginning the application process.
- Clean the mixing station and application tools after use with a VOC-exempt solvent. Always follow all legal, health, and safety guidelines when handling or storing solvents and materials, especially when working in confined spaces.
- Dispose of empty packaging and other waste in accordance with all applicable federal, state, provincial, and local regulations.

MIXING PROCEDURE

1. Pre condition product to temperature between 70°-80°F for best results
2. Add 12 oz of metallic pigment to A-Component in its respective container and mix using Jiffy mixer and drill at slow speeds for 5-10 mins until thoroughly homogeneous
   - Best to mix metallic pigment into A-component and let saturate for 24 hours and pre-mix again prior to use
3. Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
4. Transfer A-component and B-component at a mix rate of 2A:1B by volume and mix for 2-3 minutes being sure to scrape sides of the bucket ensuring both components are thoroughly blended
   - Do not mix at high RPMs or air entrapment may occur
   - Do not pull mixing paddle in and out of the mix during process or air entrapment may occur

COVERAGE RATES & WORKING TIMES

- Buildcoat: 50 Ft² / Gal @ 32 Mils WFT

- 60-65 Minute Working Time @ 52°F
- 40-45 Minute Working Time @ 70°F
- 25-30 Minute Working Time @ 88°F

- Surface porosity, temperatures, and application method will cause coverage rate to vary.
- Ambient temps & humidity, product and surface temps, airflow and mix time affect overall working times

APPLICATION PROCEDURE

- Epoxy sets faster in mass; Mixed material should not remain in bucket
- Be mindful of environmental variables and affects on estimated working time

2. Pour mixed material across the surface. Use a lightweight padco applicator, 3/4” nap roller, or squeegee to gauge material across surface achieving desired thickness.
   - Do not flip bucket upside down and allow to sit on surface
   - Ensure you maintain a wet edge throughout application process
   - Follow recommended coverage rates and wet film thickness
3. Create flow and movement using organic motions with preferred application tool
   - Do not overwork material as color shift and blends will be more muted and muddy when using multiple colors
4. Allow coating to dry : 16-24 Hours @ 57°F
   8-12 Hours @ 75°F
   4.5-6 Hours @ 93°F
   - Do not force dry
   - Recoat: 24 Hours @ 75°F
   - Surface should be abraded using 80-100 grit sanding screen to break surface tension, vacuumed, and solvent wiped with acetone to remove residual dust prior to applying final topcoat
     - Light Traffic: 24 Hours @ 75°F
     - Heavy Traffic: 72 Hours @ 75°F
     - Equipment Traffic: 72 Hours @ 75°F
   - Lower temps will further delay traffic time

MAINTENANCE

Inspect the installed floor by spot-cleaning and repairing any damaged or cracked areas as needed. To extend the life of the flooring system, implementing a daily maintenance program is strongly recommended to help ensure the floor remains safe for its intended use.

TECHNICAL SUPPORT

For questions, please contact a Floorguard Products representative. Additional support materials are available from Floorguard Products. Visit floorguardproducts.com or reach out to us directly for further resources.

DISCLAIMER