

Epoxy Mastic Floor Coating

Features

- Locally available color system
- High Gloss
- VOC compliant
- High Solids Formulation
- Excellent build on edges
- Rapid and extended recoat windows
- Excellent wetting and adhesion properties
- Good chemical resistance

Typical Uses

EpoxyGrip 2118 Floor Finish is used as a finish coat for flooring applications over epoxy primers in general duty and corrosive environments. Where exterior color fastness is required EpoxyGrip 2118 Floor Finish may be top-coated with polyurethane finishes.

Used as a finish coat for flooring applications in refineries, petrochemical plants, power plants, pulp & paper mills, warehousing, general manufacturing environments, and other areas as recommended.

Physical Data

Abrasion resistance (ASTM D 4060) 1 kg load/1000 cycles (ASTM D 4060) CS 17 wheel	weight loss 60 mg
Impact resistance (ASTM D 2794) Direct impact	80 in-lbs.
Adhesion (ASTM D 4541)	4031 psi
Temperature resistance (non-immersion) Continuous	250°F
Non-continuous	300°F
Theoretical volume solids of mixed material	80%±1%
Theoretical coverage of mixed gallon (1 mil)	1,283 sq. ft.
Volatile Organic Content	
Unthinned	1.53 lbs./gal.
Reducer 1 @ 1 quart/gal.	2.61 lbs./gal.
Reducer 2 @ 1 quart/gal.	2.96 lbs./gal.

Resistance

EpoxyGrip 2118 Floor Finish is resistant to a wide range of chemicals in atmospheric exposures. The following is a guide to the proper selection.

<u>Exposure</u>	<u>Immersion</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acidic	Not recommended	Good	Good
Alkaline	Not recommended	Excellent	Excellent
Solvents	Not recommended	Good	Excellent
Salt water	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

Film Thickness (per coat)

Dry film thickness: 4 to 6 mils

Wet film thickness: 5 to 9 mils

Theoretical coverage: 257 sq. ft. @ 5 mils DFT

Note: One coat is normally required; however, certain colors may require additional coats for hiding.

Primer/Substrates

EpoxyGrip 2118 Floor Finish can be applied over EpoxyGrip 2100 or EpoxyGrip 2000 or other primers as recommended.

Topcoats

EpoxyGrip 2118 Floor Finish, like other epoxies, tends to chalk and amber when exposed to sunlight in a humid environment. Urethane topcoats are recommended to maintain a colorfast system under these conditions. UreGrip 3000 and UreGrip 3300 are recommended topcoats for EpoxyGrip 2118 Floor Finish.

Colors

EpoxyGrip 2118 Floor Finish is available in a state-of-the-art color system providing accurate quality matches. A color chart of 100 commonly used colors is provided for your convenience. Custom colors can be computer matched.

Shipping Data

Packaging unit	<u>3 gal.</u>	<u>15 gal.</u>
Base	2 gal.	10 gal.
Converter	1 gal.	5 gal.
Shipping weight (approx.)		
Package unit	37 lbs.	185 lbs.
	<u>1 gal.</u>	<u>5 gal.</u>
Reducer 1	8 lbs.	40 lbs.
Reducer 2	9 lbs.	45 lbs.
Flash Point: (Setaflash)		
Base	94°F	
Converter	108°F	
Reducer 1	53°F	
Reducer 2	113°F	

Shelf Life: 3 years for both the base and the converter when stored inside at 40°F to 110°F.

EpoxyGrip® 2118 Floor Finish Product Data Sheet

Surface Preparation

Concrete: Minimum cure is 28 days at 75° F and 50 % RH or the equivalent. Remove oil and grease from the surface with solvent or a commercial cleaner, which does not leave a residue according to SSPC-SP1. Abrasive blast to remove laitance and form oils and produce a surface roughness similar to medium sandpaper. Surfacing may be required to fill holes in order to produce a sealed surface.

Mixing

Power mix each component, then blend Converter into the Base and mix until uniform at the following ratio:

	<u>3 Gal. Kit</u>	<u>15 Gal. Kit</u>
EpoxyGrip 2118 Base	2 gallon	10 gallon
EpoxyGrip 2118 Floor Finish Converter	1 gallon	5 gallon

Thinning

Thinning is not required for most applications, however EpoxyGrip 2118 Floor Finish may be thinned up to 1 quart/gal. Reducer 1 is recommended for applications temperatures below 70°F and Reducer 2 is recommended above 70°F. Reducer 2 is recommended for brush and roller applications of EpoxyGrip 2118 Floor Finish.

Pot Life

Three hours at 75° and less at higher temperatures.

Applications Conditions

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
Minimum	50°F	50°F	50°
Maximum	90°F	110°F	110°F

Special thinning and application procedures are required outside these temperatures. Surface temperatures should be 5°F above dew point to prevent condensation.

Application Equipment

Conventional Spray: Industrial sprayers such as DeVilbiss MBC or JGA and Binks 18 or 62 having double regulated pressure pot, 3/8" I.D. minimum material hose and a .070" I.D. fluid tip and air cap are recommended.

Airless Spray: Sprayer such as Graco's Bulldog with a 30:1 ratio and a .017" to .021" tip is recommended. A 30 mesh inline filter is recommended.

Power Mixer: Use only explosion proof power mixers.

Brush or Roller: Use medium brush and short nap roller with solvent resistant fibers and core.

Drying Time

The following minimum times are based on a 5 mil DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

<u>Surface Temperature</u>	<u>To Touch</u>	<u>To Handle</u>	<u>Final Cure</u>
50°F	12 hrs.	32 hrs.	4 days
60°F	6 hrs.	16 hrs.	2 days
70°F	3 hrs.	8 hrs.	1 day
80°F	2 hrs.	5 hrs.	12 hrs.
90°F	1 hr.	3 hrs.	6 hrs.

Maximum Recoat

EpoxyGrip 2118 Floor Finish is formulated with an unlimited recoat window. However, since epoxies tend to chalk, it is imperative that the chalk and surface contamination be removed prior to recoating. High pressure water washing is an acceptable method of removing chalk and surface contamination.

Cleanup

Cleanup with Reducer 1 or Reducer 2.

Rev. 4/8/11

CAUTION: Read and follow all caution statements on this product data sheet and on the Material Safety Data Sheet for this product.

CONTAINS FLAMMABLE SOLVENTS. Vapors are heavier than air and will accumulate. Extinguish all flames and prevent all sparks. All electrical equipment and installations should be made and grounded in accordance with the National Electrical Code. Where explosion hazards exist workers are required to use non-sparking tools and wear non-sparking shoes.

HEALTH: In confined spaces workers must wear fresh airline respirators.

WARRANTY: Any recommendation of U.S. Coatings contained herein, covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however U.S. Coatings makes no warranty or representation with respect thereto. Use or application is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Coatings.