EpoxyGrip® 2000

Epoxy Mastic Coating

Features

- Locally available color system
- Semi-gloss finish
- VOC compliant
- High Solids Formulation
- Excellent build on edges
- Rapid and extended recoat windows
- Single coat capability
- Excellent wetting and adhesion properties
- Good chemical resistance
- Application over hand tool cleaned substrates (SSPC-SP 11)

Typical Uses

Used as an intermediate or topcoat over zinc rich primers for highly corrosive environments. Where exterior color fastness is required EpoxyGrip 2000 may be top-coated with polyurethane finishes.

Used on structural steel, steel tanks, offshore platforms, barges, refineries, petrochemical plants, power plants, railcars, pulp & paper mills, masonry surfaces and other areas as recommended. EpoxyGrip 2000 may be used as a surface tolerant single coat system in mild duty applications.

Qualifications

Exceed requirements of SSPC Paint 22 performance requirements.

Performance Data

Salt Spray (ASTM B 117) 1000 hours
Plane blistering or rusting: none

Physical Data

Abrasion resistance (ASTM D 4060)	
1 kg load/1000 cycles (ASTM D 4060)	weight loss
CS 17 wheel	22 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)	**1283 sq. ft.**
Volatile Organic Content	
Unthinned	1.44 lbs./gal. 174 g/l
Reducer 1 @ 1 pint/gal.	2.04 lbs./gal. 247 g/l
Reducer 2 @ 1 pint/gal.	2.09 lbs./gal. 253 g/l

Resistance

EpoxyGrip 2000 is resistant to a wide range of chemicals in atmospheric exposures. The following is a guide to the proper selection.

Exposure	Immersion	Splash & Spillage	Fumes
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 2000 can be applied over the following primers or directly to steel or concrete as recommended. EpoxyGrip 2000 should be applied to cured ZincGard 1000 by thinning one pint/gallon with Reducer 2 and applying a mist coat approximately 3mils wet which seals the porous inorganic zinc. The mist coat is followed by another light coat to achieve the total desired film thickness. EpoxyGrip 2000 is applied without a mist coat to ZincGard 1500, EpoxyGrip 2100 and MasticGrip 2500. Consult SSPC-PS Guide 8.00 for topcoating zinc-rich primers.

Topcoats

EpoxyGrip 2000, like other epoxies, tends to chalk and amber when exposed to sunlight in a humid environment. Urethane topcoats are recommended to control the erosion of the epoxy and maintain a colorfast system. UreGrip 3000 and UreGrip 3300 are recommended topcoat for EpoxyGrip 2000.

Colors

EpoxyGrip 2000 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	2 gal.	10 gal.
Part A	1 gal.	5 gal.
Part B	1 gal.	5 gal.
Shipping weight (approx.)		
Package unit	28 lbs.	140 lbs.
	1 gal.	5 gal.
Reducer 1	8 lbs.	40 lbs.
Reducer 2	9 lbs.	45 lbs.

Flash Point: (Setaflash)	
Part A	94°F
Part B	108°F
Reducer 1	53°F
Reducer 2	113°F

Shelf Life: 2 years for both the Part A and B when stored inside at 40°F to 110°F.

COATING SOLUTIONS FORMULATED TO MATCH YOUR NEEDS

EpoxyGrip® 2000

Surface Preparation

Remove oil and grease from the surface with solvent or a commercial cleaner, which does not leave a residue according to SSPC-SP1.
Steel: Abrasive blasting is preferred when possible as the performance is enhanced. For normal environments, abrasive blast to a Commercial finish per SSPC-SP 6 to obtain a 1 ½ to 3 mil profile. For immersion conditions, abrasive blast to a Near-White finish per SSPC-SP 10 to obtain 1 ½ to 3 mil profile. For mild environments, which do not permit abrasive blasting, Hand Tool cleaning per SSPC-SP 2, Power Tool cleaning per SSPC-SP 3 or High Pressure Water cleaning per SSPC-SP12/NACE 5 WJ-4 is recommended.
Concrete: Minimum cure is 28 days at 75° F and 50 % RH or the equivalent. Abrasive blast to remove laitance and form oils and to 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 Part B into the Part A and mix until uniform at the following ratio:

	2 Gal. Kit	10 Gal. Kit
EpoxyGrip 2000 Part A	1 gallon	5 gallon
EpoxyGrip 2000 Part B	1 gallon	5 gallon

Thinning

Thinning is not required for most applications; however EpoxyGrip 2000 may be thinned up to 1 pint/gal. Reducer 1 is recommended for applications temperatures below 70°F and Reducer 2 is recommended above 70°F. Reducer 2 is recommended for overcoating inorganic zinc primers as well as for brush and roller applications of EpoxyGrip 2000.

Pot Life

Three hours at 75° and less at higher temperatures.

Applications Conditions

	Material	Surface	Ambient
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.

Surface Temperature	To Touch	To Handle	Final Cure
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.

EpoxyGrip 2000 can be applied in a wet-on-wet manner, which eliminates the dry time between coats when recoating with itself. When recoating with UreGrip, EpoxyGrip 2000 should dry according to the "To Handle" schedule.

Maximum Recoat

EpoxyGrip 2000 has a 30-day maximum recoat window. It is imperative that the chalk and surface contamination be removed prior to recoating. High pressure washing is an acceptable method of removing chalk and surface contamination. For applications requiring longer than a 30-day window, please contact US coatings for recommendations.

Cleanup

Cleanup with Reducer 1 or Reducer 2.

Rev. 9/20/16
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.

phone 314-205-1500 fax 314-205-1519 www.uscoatings.com St. Louis, MO