

High Solids Epoxy Coating

Features

- Semi-gloss finish
- VOC compliant
- High Solids Formulation
- Formulated for Mil C 22750F
- Single coat capability
- Excellent wetting and adhesion properties
- Good chemical resistance

Typical Uses

Used as a Direct to Metal epoxy for Original Equipment Manufacturing especially those requiring performance compliance with Mil C 22750F.

Qualifications

Exceeds performance requirements of MIL C 22750F.

Performance Data

Requirements of MIL C 22750F.

Physical Data

| | |
|---|--------------------|
| Abrasion resistance (ASTM D 4060) | |
| 1 kg load/1000 cycles (ASTM D 4060) | weight loss |
| CS 17 wheel | 22 mg |
| Flexibility (ASTM D522) 1 inch | pass |
| Adhesion (FED-STD 141 Method 6301) | no peeling |
| Temperature resistance (non-immersion) | |
| Continuous | 250°F |
| Non-continuous | 300°F |
| Theoretical volume solids of mixed material | 62%±1% |
| Theoretical coverage of mixed gallon (1 mil) | 994 sq. ft. |
| Volatile Organic Content | |
| Unthinned | 2.7 lbs./gal. |

Resistance

EpoxyGrip 22750 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: 1 to 3 mils

Wet film thickness: 2 to 5 mils

Theoretical coverage: 497 sq. ft. @ 2mils DFT

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

Primer/Substrates

EpoxyGrip 22750 can be applied over the following primers or directly to steel or concrete as recommended.

Topcoats

EpoxyGrip 22750, 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 22750.

Colors

EpoxyGrip 22750 is available in a wide range of colors on special order.

Shipping Data

| | | |
|----------------|---------------|---------------|
| Packaging unit | <u>1 gal.</u> | <u>5 gal.</u> |
| Base | .8 gal. | 4 gal. |
| Converter | .2 gal. | 1 gal. |

| | | |
|---------------------------|---------|---------|
| Shipping weight (approx.) | | |
| Package unit | 12 lbs. | 60 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 | 23°F |
| Converter | 45°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® 22750 Product Data Sheet

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 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 Converter into the Base and mix until uniform at the following ratio:

| | <u>1 Gal. Kit</u> | <u>5 Gal. Kit</u> |
|---------------------------|-------------------|-------------------|
| EpoxyGrip 22750 Base | 0.8 gallon | 4 gallon |
| EpoxyGrip 22750 Converter | 0.2 gallon | 1 gallon |

Thinning

Thinning is not required for most applications; however EpoxyGrip 22750 may be thinned up to 1 pint/gal. Reducer 1 is recommended for application 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 22750.

Pot Life

Four 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 King pump or better with a 56:1 ratio and a .017" to .021" tip is recommended. A 30 mesh inline filter is recommended. 3/8" fittings and hose are 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 2 mil DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

Surface

| <u>Temperature</u> | <u>To Touch</u> | <u>To Handle/ Recoat</u> |
|--------------------|-----------------|--------------------------|
| 50°F | 10 hrs. | 24 hrs. |
| 60°F | 6 hrs. | 16 hrs. |
| 70°F | 4 hrs. | 8 hrs. |
| 80°F | 2 hrs. | 5 hrs. |
| 90°F | 1 hr. | 3 hrs. |

Maximum Recoat

EpoxyGrip 22750 tends to chalk like most epoxies so that the surface contamination must 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. 9/8/09

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.

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