

Coal Tar Epoxy Coating

Features

- Outstanding immersion resistance to fresh and salt water
- Outstanding abrasion resistance
- Meets or exceeds SSPC-Paint 16
- High Solids Formulation
- VOC compliant
- High build capabilities Excellent
- build on edges Single coat capability
- Excellent wetting and adhesion properties
- Good chemical resistance
- Application over hand tool cleaned substrates (SSPC-SP 11)

Typical Uses

Dura-Grip 200 is used on structural steel, steel and concrete tank linings recommended for immersion service, offshore platforms, barges, refineries, petrochemical plants, power plants, railcars, pulp & paper mills, masonry surfaces and other areas as recommended. Dura-Grip 200 may be used as a surface tolerant single coat system in mild duty applications.

Qualifications

Exceed requirements of SSPC Paint 16 performance requirements.

Performance Data

Salt Spray (ASTM B 117) 3000 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	60 mg
Impact resistance (ASTM D 2794)	
Direct impact	160 in-lbs.
Adhesion (ASTM D 4541)	300 psi
Temperature resistance (non-immersion)	
Continuous	250°F
Non-continuous	300°F
Theoretical volume solids of mixed material	74%+2%
Theoretical coverage of mixed gallon (1 mil)	1187 sq. ft.
Volatile Organic Content	
Unthinned	2.0 lbs/gal.
Reducer 3 @ 1 pint/gal.	2.6 lbs/gal.

Resistance

Dura-Grip 200 is resistant to a wide range of chemicals in atmospheric and immersion exposures. The following is a guide to the proper selection.

Exposure	Immersion	Splash & Spillage	Fumes
Dilute acid	Excellent	Excellent	Excellent
Dilute alkali	Excellent	Excellent	Excellent
Solvents	Not recommended	Poor	Good
Salt water	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

Film Thickness (per coat)

Dry film thickness: 8 to 16 mils

Wet film thickness: 11 to 21 mils

Theoretical coverage: 118 sq. ft. @ 10 mils DFT

Note: Two coats at 16–20 mils total dft normally recommended for immersion service.

Primer/Substrates

Dura-Grip 200 can be applied over the following primers or directly to steel or concrete as recommended. Dura-Grip 200 should be applied to cured Dura-Gard 1000 by thinning one pint/gallon with Reducer 3 and applying a mist coat approximately 3mils wet which seals the porous inorganic zinc. The mist coat is followed by another coat to achieve the total desired film thickness. Dura-Grip 200 is applied without a mist coat to Dura-Gard 1500, Dura-Grip 2100 and Dura-Grip 2500. Consult SSPC-PS Guide 8.00 for topcoating zinc-rich primers.

Topcoats

Dura-Grip 200 tends to bleed through topcoats, therefore Dura-Grip 200 is normally not topcoated.

Colors

Dura-Grip 200 is available in black and dark red.

Shipping Data

Packaging unit	1 gal.	5 gal.
Base	.8 gal.	4 gal.
Converter	.2 gal.	1 gal.
Shipping weight (approx.)		
Package unit	12 lbs.	60 lbs.
	1gal.	5gal.
Reducer 3	9 lbs.	45 lbs.
Flash Point: (Setaflash)		
Base	75°F	
Converter	>140°F	
Reducer 3	78°F	

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

Dura-Grip® 200 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 V2 to 3 mil profile. For immersion conditions, abrasive blast to a Near-white finish per SSPC-SP 10 to obtain 1 V2 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 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 base 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>
MasticGrip 200 Base	.8 gallon	4 gallon
MasticGrip 200 Converter	.2 gallon	1 gallon

Thinning

Thinning is not required for most applications, however Dura-Grip 200 may be thinned up to 1 pint/gal with reducer 3.

Pot Life

Three hours at 75° and less at higher temperatures. Pot life ends when mixed material loses film build.

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 .027" to .035" 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 for touch up of small areas.

Drying Time

The following minimum times are based on a 8 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 Recoat</u>	<u>Final Cure (Immersion)</u>
50°F	8 hrs.	10 hrs.	14 days
60°F	6 hrs.	8 hrs.	10 days
70°F	4 hrs.	6 hrs.	9 days
80°F	2 hrs.	5 hrs.	5 days
90°F	1 hr.	3 hrs.	3 days

MasticGrip 200 can be applied in a wet-on-wet manner, which eliminates the dry time between coats when recoating with itself.

Maximum Recoat

Sunlight oxidizes the surface of the coal tar, inhibiting adhesion of the next coat. Therefore, Dura-Grip 200 should be topcoated within 24 hours. If the maximum recoat time is exceeded, the coating should be sweep blasted with fine abrasive to roughen the surface.

Cleanup

Cleanup with Reducer 3.

10/16/02

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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