



"Innovative Coatings for Your Environment"®

PRODUCT DATA

RailGard 9000

Description:	RailGard 9000 is a high build, direct to metal epoxy to be applied as a single coat system for the exterior of railcars and interior for Carbon Black Hopper Cars.
Features:	Direct to Metal High gloss finish VOC compliant High Solids Formulation Excellent build on edges Rapid and extended re-coat windows Single coat capability Excellent wetting and adhesion properties Good chemical resistance 1:1 Mixing Ratio Fast Drying
Performance:	Salt Spray (ASTM B 117) 1000 hours Plane blistering or rusting: none
Physical Data (Typical):	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 Dry Temperature resistance (non-immersion) Continuous 250°F Non-continuous 300°F Theoretical volume solids of mixed material 82±2% Theoretical coverage of mixed gallon (1 mil) 1315 sq. ft. @ 5 mils 263 sq. ft.



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Volatile Organic Content
Un-thinned 1.08 lbs./gal.

Chemical Resistance:

RailGard 9000 is resistant to a wide range of chemicals in atmospheric exposures. The following is a guide to the proper selection.

Exposure	Splash & Spillage	Fumes
Acids	Good	Good
Alkaline	Excellent	Excellent
Solvents	Good	Excellent
Salt Water	Excellent	Excellent
Water	Excellent	Excellent

Film Thickness:

Dry film thickness: 4 to 6 mils
Wet film thickness: 5 to 8 mils
Maximum 12 mils DFT in one coat applications
Theoretical coverage: 263 sq. ft. @ 5 mils DFT

Primer/Substrates:

RailGard 9000 is normally applied directly to steel.

Topcoats:

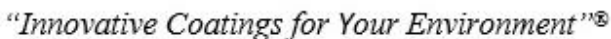
When additional protection is required, RailGard 9000 may be top coated with a urethane finish coating.

Colors:

RailGard 9000 is normally used in black or gray. Custom colors are available.

Shipping Data

Packaging unit	2 gal.	10 gal.
Base	1 gal.	5 gal.
Converter	1 gal.	5 gal.
Shipping weight (approx.)		
Package unit	21 lbs. 1gal.	53 lbs. 5gal.



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

Note: 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.

Plural Component Airless Spray: Graco's XTreme Mix is the preferred plural component equipment.

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 Temp.	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.

RailGard 9000 can be applied in a wet-on-wet manner, which eliminates the dry time between coats when re-coating with itself.



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Maximum Re-coat:

RailGard 9000 is formulated with an unlimited re-coat window. However, when re-coating an aged epoxy, it is imperative that the surface contamination be removed prior to re-coating. High pressure water washing is an acceptable method of removing chalk and surface contamination.

Cleanup:

Cleanup with M.E.K.

RAILGARD 9000 061118 DEL
H/Users/WP51/PDS RAILGARD

The technical data furnished herein is accurate to the best of our knowledge and we guarantee our products to conform to Davis-Frost quality control. However, we can assume no liability for our products' coverage, performance or suitability for end use, since these factors are beyond our control. Neither can we assume liability for damages, injury or delays resulting from use of Davis-Frost materials. Liability, if any, is limited to replacement of defective materials or to a monetary value not to exceed the purchase price of materials. Technical data is subject to change.