



PORTER GUARD[®] DTM Acrylic Gloss Enamel

2909

PORTER GUARD DTM Acrylic Gloss Enamel No. 2909 series is a top quality, waterborne, low odor, Direct-To-Metal (DTM) acrylic enamel for interior and exterior use in architectural, institutional and mild industrial environments. It may be applied directly to properly prepared iron, steel, aluminum, galvanized metals, and many primed surfaces including masonry and wood.

USED FOR	FEATURES
<ul style="list-style-type: none"> Steel Galvanized Primed aluminum Poured/Precast concrete Concrete block (CMU) Wood trim 	<ul style="list-style-type: none"> High hiding Non-yellowing Excellent touch-up Flash rust resistant Washable Easy to apply & low odor

RECOMMENDED SYSTEMS

PORTER GUARD DTM Acrylic Gloss Enamel No. 2909 series can be applied to a wide variety of primed and unprimed substrates. (NOTE: for best performance, prepare iron and steel surfaces in accordance with SSPC-SP 6 "Commercial Blast Cleaning" and prime with Porter primer No. 272/276, No. 286, No. 296 or No. 299.) **Finish the following primed surfaces with one or two coats of PORTER GUARD DTM Acrylic Gloss Enamel No. 2909 series:**

SUBSTRATE	PRIMER
Aluminum:	272/276, 286, 290, 296, self prime (2905 only)
Galvanized Metal*:	212/215, 290, 299, self prime (all bases)
Iron, Steel:	212/215, 272/276, 286, 296, 299, self prime (2905 only)**
Repaint:	self prime (except on high performance PC finishes)

*For best performance on galvanized with rust spots, remove rust-prime spots with 272/276, 286, 296 or 299.
 **NOTE: Adding more than 4 ounces of tint per gallon, excessive thinning, insufficient or excessive film build, or poor drying conditions may result in flash rusting or rust staining on bare iron and steel.

Also finish the following additional or incidental primed substrates with PORTER GUARD DTM Acrylic Satin Enamel No. 2909 series as appropriate:

Brick:	335, 898, 6010, 6015
Poured/precast concrete:	335, 898, 6010, 6015
Concrete block (CMU):	222, 896, 6223
Wood, interior:	135, 1129, 6064
, exterior:	335, 515, 565, 74130

LIMITATIONS

Protect from freezing. Do not apply when air or surface temperature is below 50°F (10°C) or above 110°F (43°C). Surface temperature must be at least 5°F above dew point. Avoid painting in direct sunlight, or in the late afternoon when condensation may occur. Do not use tinted bases direct to iron or steel. Not recommended for floors or large exterior wood surfaces. Use for service below 180°F.

TECHNICAL DATA

Data below is based on white/pastel base.

Product Type:	Acrylic	
Bases/Colors:	2905 White/Pastel base	2912 Safety Red
	2909 Light base	2913 Safety Yellow
	2908 Deep base	2928 Black
	2904 Ultra Deep base	

Gloss, 60°:	Gloss (Typical range: 73 - 79)	
Reflectance:	90 ± 1%	
Percent Solids:		
Weight:	50 ± 2%	
Volume:	37 ± 2%	
PVC:	22 ± 2%	
Weight/Gallon:	10.4 lb	
Viscosity (Initial):	92 - 98 Krebs Units	
Thinner:		

Brush/Roller: If necessary, thin sparingly with clean water up to ½ pint per gallon.
Spray: If necessary, thin with clean water up to ½ pint per gallon.

Clean-up: Use warm, soapy water.
Recommended Film Thickness:

	DTM-Iron/Steel	Masonry	Wood
Wet:	6.8-8.1 mils	5.4 mils	4.1 mils
Dry:	2.5-3.0 mils	2.0 mils	1.5 mils
Spread Rate (Theoretical):			
Up to:	235 sq. ft./gal.	300 sq ft/gal	400 sq ft/gal
Dry time (70°F @ 50% R.H.):			
To Touch:	15-30 minutes		
To Recoat:	4 hours		
Full Service:	15-30 days		

(Expect longer dry times at lower temperatures and higher relative humidity.)
Flash Point: >200°F (>93°C)
Flame Spread Rating: Class A (0-25)
 (See Porter Technical Bulletin No. 9: Flame Spread Rating.)
Federal Specification Crossover: TT-P-1511B, Type II
 (See Porter Technical Bulletin No. 6: Federal Specification Performance Crossover.)

Note: This product is not formulated with lead or mercury containing materials.

REGULATORY DATA

VOC based on white/pastel base. See labels for other bases.
VOC (theoretical):
 As supplied (untinted): 0.87 lb/gal (104 g/l)

SURFACE PREPARATION

Paint only clean, dry, deglossed and profiled (blasted, scarified or chemical treated) surfaces. Remove dirt, oils, grease, wax, release agents, sanding dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. 571, Soilax and water, Porter Paint Thinner No. 5132 or other appropriate cleaners per SSPC-SP 1 cleaning procedures. Remove loose paint, mill scale, rust (*NOTE: All rust must be removed prior to DTM application*), etc. by Hand Tool Cleaning (SSPC-SP 2), Power Tool Cleaning (SSPC-SP 3) or Commercial Blast Cleaning (SSPC-SP 6). Treat galvanized surfaces with Galvaprep® 5. For mild service, treat rust with Metalprep® 79 (also clean other metals with Metalprep 79 prior to painting or as a pre-cleaner prior to other chemical treatment). Treat aluminum with Alumiprep® 33.

Allow new masonry and concrete to cure for up to 28 days as necessary before painting. Prepare surfaces as indicated on selected primer or block filler data sheet. Remove efflorescence with muriatic acid. Previously painted surfaces may require sweep blast cleaning. Fill cracks and holes in masonry with Bondex Concrete Patch or other appropriate filler. To assure successful overcoating, moisture content must be below 12% . Test for moisture content with a moisture meter or by ASTM Test Method D 4263-83: Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method. Prime or fill as appropriate. *Note: for incidental masonry and concrete, PORTER GUARD DTM Acrylic Gloss No. 2909 may be thinned and applied as a primer.*

Fill cracks and gouges in other surfaces with ready mix spackling paste, wood patch or filler, etc. as appropriate. Sand smooth as necessary before painting.

INSTRUCTIONS FOR USE

Tinting: *For Direct-To-Metal application on iron and steel with white/pastel base no. 2905, do not exceed 4 ounces of Porter DESIGN SPECTRUM® Colorants per gallon.* For all other applications tint with Porter DESIGN SPECTRUM Colorants per label instructions.

Mixing: Stir or shake thoroughly before application.

Thinning: *For Direct-To-Metal Application to Iron and Steel with white/pastel base no. 2905, do not thin unless absolutely necessary.* For all other applications, thin sparingly with clean water as necessary for proper application. Do not exceed ½ pint per gallon.

Clean-up: Clean tools and spray equipment with warm, soapy water.

Application:

Conditions: <i>Temperature Range:</i>	50°F to 110°F (air, surface, paint) (Optimum paint temperature 65-80°F)
<i>Dew Point:</i>	Surface temperature must be at least 5°F above the dew point.
<i>Relative Humidity:</i>	Maximum 85%
Equipment: <i>Brushes:</i>	Use nylon or polyester brushes.
<i>Rollers:</i>	Use 3/8" to 3/4" synthetic roller covers.
<i>Airless Spray:</i>	Minimum 28:1 Pump Ratio; 1800-2400 psi; .015"-.019" tip.
<i>Conventional Spray:</i>	DeVilbiss MBC-510 gun; E tip; 704 air cap; 3/8" (1.0 cm) ID material hose; double regulated pressure tank with oil and moisture separator; 20 psi fluid pressure; 40-60 psi air pressure.
Directions: <i>New Work, self-prime:</i>	Apply a uniform prime coat at the millage specified for the application. Finish with one or more coats of PORTER GUARD DTM Acrylic Gloss Enamel No. 2909.
<i>New Work, other:</i>	Apply the selected primer (see RECOMMENDED SYSTEMS) or block filler per label directions. Finish with one or more coats of PORTER GUARD DTM Acrylic Gloss Enamel No. 2909.
<i>Repaint:</i>	Spot prime bare areas with the selected primer (see RECOMMENDED SYSTEMS), then finish with one or more coats of PORTER GUARD DTM Acrylic Gloss Enamel No. 2909.

Washing Instructions: Protect the finish from abuse and contamination until well cured, at least 14-30 days. Try to avoid washing the finish for 4-6 weeks. For large areas, wash with a soft sponge and a solution of PORTERPREP Heavy Duty Cleaner No. 571, Soilax or TSP. For marks, pencil, etc., clean with a damp sponge and powdered cleanser. (See Porter Technical Bulletin #5 "How to Wash Flat Wall Paint.")

PRECAUTIONS

Prior to using this product, the user is specifically directed to obtain and read the current Material Safety Data Sheet and Label for this product. If, after reading these documents, you do not understand them, do not use this product. KEEP OUT OF REACH OF CHILDREN.

SHIPPING

Freight Classification: PAINT OR PAINT RELATED MATERIAL

Packaging: 4 Gallons per carton; 5-Gallon Pail

Shipping Weights: 11.2 lb/gal (45.8 lb/carton); 54.9 lb/5-gal



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