

# STATE OF CALIFORNIA

## Dark Green Finish Paint Waterborne Acrylic Latex Vehicle (Formula PWB-172B)

### TECHNICAL DATA SHEET

**Description:** PWB-172A is a waterborne, premixed, 100% acrylic latex finish paint, formulated for spray application onto properly prepared and primed metal surfaces. Limited application can be made using brushing and rolling.

<b><u>Characteristics:</u></b>	
Finish:	Semi-Gloss
Color:	Fed 595B color chip # 14090
Volume Solids:	43.1% ± 2%
Weight Solids:	47.5% ± 2%
VOC	100g/L
Density:	9.26 lbs./Gallon ± 2%
pH	8.3- 8.7
Viscosity:	73 – 76 KU
High shear Viscosity:	0.3 – 0.5 P

<b><u>Recommended Spreading Rate per coat:</u></b>	
Wet:	3.5 – 7.0 mils
Dry:	1.5 - 3 mils
Coverage:	230 - 460 sq. ft./gal

<b>Drying time: 4 mils wet film &amp; 50% RH</b>			
	<u>50°F</u>	<u>77°F</u>	<u>100°F</u>
Set to touch (minutes):	31	18	9
Dry through (minutes):	60	48	26
To Recoat (hours):	12	12	12

Flash point	>215°F
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**Shelf life: 1-year minimum, when unopened and Stored at 40 to 100°F**

**Surface Preparation:** All surfaces must be clean, dry, and free of contaminants. All dirt, grease, rust, mill scale, or loose chalky paint must be removed in conformance with the provisions in section 59 “Structural Steel Coatings”, Section 59-1, “General”, or Section 59-3, “Painting galvanized surfaces” of the *State of California Department of Transportation Standard Specifications* unless otherwise specified in the contract special provisions.

Mechanical mixers shall be used to mix the paint before application. To avoid incorporating air into the paint, mechanical shakers should not be used. The paint shall be mixed a sufficient length of time to thoroughly mix the pigment and vehicle together. The paint shall be applied using by spray application on properly prepared and primed metal surfaces. Limited application can be made using brushing and rolling. Inaccessible areas for painting by regular means shall be applied by daubers, bottle brushes, or other authorized methods.

<u>Material</u>	<u>Surface Preparation</u>	<u>Specifications</u>
New structural steel, unpainted	Near white metal blast cleaning with appropriate abrasive media. All surfaces must be clean, dry, and free of contaminants. Apply appropriate primer to recommended film thickness.	SSPC-SP1 SSPC-SP10
Previously painted structural steel	Steam clean or power wash to remove all dirt, grease, contaminants, and gloss from existing paint. Spot clean rusty areas to remove all rust and mill scale. Spot prime areas as needed.	SSPC-SP1 SSPC-SP2 SSPC-SP3 SSPC-SP11 SSPC-SP6
Galvanized steel	Steam clean or power wash to remove all dirt, grease, and contaminants. Spot clean to remove rust and mill scale. Roughen surface by whip blasting or light sanding. Do not remove intact galvanizing. Spot prime areas as needed.	SSPC-SP1 SSPC-SP2 SSPC-SP3 SSPC-SP11 SSPC-SP7

Note: Blast cleaned surfaces must be primed the same day blast cleaning is done.

<u>Application Conditions</u>	
<b>Temperature:</b>	50°F minimum, 100°F maximum, (air, surface, and material). Surface temperature must be at least 5°F above the dew point.
<b>Relative Humidity:</b>	75% maximum at the site of the work.

Thinning: No thinning of paint will be allowed unless otherwise provided in the specifications or permitted by the engineer.

**All cleaned surfaces must be tested for soluble salts using a cell retrieval method as described in SSPC-TU 4, "Field Methods for**

**Retrieval and Analysis of Soluble Salts on Substrates," of the "SSPC: The Society for Protective Coatings," and cleaned so the maximum level of soluble salts does not exceed 10 micrograms per square centimeter. Areas should be tested at the rate of 3 tests for the first 1000 square feet prepared**

per day, and one test for each additional 1000 square feet or portion thereof, at randomly selected locations. When less than 1000 square feet of surface area is prepared in a shift, at least 2 tests should be performed. If levels of soluble salts exceed the maximum, the entire area represented by the test should be recleaned and tested until soluble salt levels conform to this requirement.

Clean up: Use tap water for clean up. 10% ammonia, acetone, or other suitable solvent may be used to remove dried paint from spray guns.

Safety: Precautions in the handling and the application of this material shall be in conformance with all applicable occupational safety and health standards, rules, regulations, and orders established by the State of California.

**References:**

Caltrans Standard Specifications  
2015, Section 59 Structural Steel  
Coatings

**[http://www.dot.ca.gov/hq/esc/oe/construction\\_contract\\_standards/stdspecs/2015\\_StdSpecs/2015\\_StdSpecs.pdf](http://www.dot.ca.gov/hq/esc/oe/construction_contract_standards/stdspecs/2015_StdSpecs/2015_StdSpecs.pdf)**