

Product Data Sheet

No. 1300DTM - 09/14

DIRECT TO METAL (DTM)

SOLVENT-BASED RUST PROOFING PAINT - BULK (<340 G/L)

PRODUCT NUMBERS:

300 - SAFETY PURPLE*	305 - SAFETY ORANGE*	312 - FLAT BLACK	322 - EQUIP. ORANGE
301 - SAFETY RED*	306 - SAFETY BLACK	317 - TAN	344 - SATIN BLACK
302 - SAFETY YELLOW*	307 - SAFETY WHITE*	318 - LIGHT BLUE	348 - METER GREEN
303 - SAFETY BLUE*	308 - BRITE RED	319 - ROYAL BLUE	349 - METER GRAY (ANSI-49)
304 - SAFETY GREEN*	309 - ALUMINUM	320 - FOREST GREEN	361 - LIGHT GRAY (ANSI-61)

Product number plus letter designation is as follows:

G = 2 ONE-GALLON CANS PER CASE; F = 1 FIVE-GALLON PAIL; D = 1 50-GALLON DRUM

* OSHA Safety Colors

I. GENERAL DESCRIPTION

Description: Aervoe Direct To Metal Rust Proofing Paint is a high quality industrial maintenance enamel coating formulated for light to moderate interior/exterior industrial exposures. This product offers lasting protection against corrosion, light abrasion, weathering and mild chemical fumes. Direct To Metal signifies that the product does not require a primer coat. In harsher environments, 2 coats of DTM may be applied for maximum protection.

Benefits: This high quality industrial coating will provide good resistance to moderate environments including rain, fog, moisture. Excellent temperature resistance to 200°F. Excellent high gloss appearance, high-hide coverage that provides corrosion protection especially on metal surfaces. A primer is not required and DTM can be applied over sound rusted areas; however, loose flakes, dirt, grease, oils, other surface contaminants or particles should be removed first with a wire brush and chemical cleaning.

Applications: Ideal for equipment maintenance and O.E.M. production. Exceeds many performance standards of nationally recognized brands.

Use on metal, wood and other common surfaces including nonporous plaster. Excellent for use on motors, tools, cabinets, pipelines, drums, conduit, ducts, furniture, steel bars, railings, tool boxes, electrical equipment and safety color coding.

Directions: For best results, surface must be clean, dry and free of grease, rust, scale and any other loose particles that could affect film adhesion. Stir thoroughly and apply by brush, roller or spray. **Thinning:** Generally not required for brush or roller application. For HVLP or Conventional spraying equipment, thin 5% to 15% with mineral spirits or Acetone (refer to the Surface Preparation, Application and Equipment Recommendation Sheet for more information). **Recoating:** To avoid lifting or wrinkling of the first coat, the second coat must be applied within the time specified as the recoat window or after full cure. This is shown in Section II under Dry Schedule as "To recoat" and "Full cure." If the recoat window has passed, the next coat must be applied after full cure has been achieved. Our Rust Proof Any-Way Spray Paint is compatible with the DTM system so you may apply the aerosol as a touch-up of the final coat instead of rerolling, brushing, or spraying the DTM, providing the application follows the recoat window for the DTM product.

Limitations: Please refer to the Safety Data Sheet for specific information on material hazards, etc. Please check your local air quality standards before using any bulk paint. Check all plastic surfaces for adhesion and compatibility before use. Not recommended for water immersion services nor as a topcoat for galvanized products. **Not for sale in California.**

Packaging:

Liquid Bulk:	Case: 2 gallon cans (mt. rd.)	23 lbs. (10.4 kg)	0.50 CF (0.014 CM)
	5-gallon pail (mt. rd.):	49 lbs. (22.2 kg)	1.20 CF (0.034 CM)
	50-gallon drum (mt. rd.)	465 lbs. (210.9 kg)	8.50 CF (0.241 CM)

II. CHARACTERISTICS & PROPERTIES (Average for all colors)

Specifications:

None

Appearance:

Gloss at 60° Flat <5 / Gloss >85

Class Flat, Gloss, Metallic

Coverage:

Theoretical (at 1 mil dry) 900 sq. ft./gal

Practical (at 2 mil dry) 450 sq. ft./gal

Dry Schedule: (at 77° F [25° C], 50% Humidity at 1 mil, dry)

To touch 2 to 4 hours

To handle 8 to 9 hours

Full cure 72 hours

To recoat Before 8 hours or after 24 hours to avoid lifting

Performance and Chemical Properties:

Weight per gallon 8.72 lbs

Specific gravity 1.05

Viscosity 85 - 100 KU

Flammability: Label marking Flammable

Flash point <25°F (-3°C)

Operating temperature range 50° to 90°F (10° to 32°C)

Percent solids by weight See attached

Percent solids by volume See attached

Percent pigment by volume 9.7% (average)

Volatile Organic Compound level <340 g/L (average)

Interior durability Excellent

Exterior durability Excellent

Temperature resistance Excellent to 200°F

Color fastness Very Good

Adhesion Excellent

Salt spray corrosion > 300 hrs direct to metal

Mineral spirits resistance Good

Gasoline resistance Good

Motor oil resistance Good

Pencil hardness F

Base Materials:

Resin system Acrylic Alkyd

Solvents (top two) Mineral Spirits, Acetone

III. SHIPPING, STORAGE AND HEALTH

UN number UN1263

Proper Shipping Description Paint

Hazard Class 3

Packing Group II

Limited Quantity Container Size Determines Applicability

Warehouse storage level number N/A

Storage temperature 32° to 120°F (0° to 49°C)

Shelf life 5 years

HMIS ratings

Health 2

Fire 3

Reactivity 1

IV. MISCELLANEOUS

Contains no Ozone Depleting Substances (O.D.S.)

V. WARRANTY

1-year performance warranty on all products from date of purchase. Report to home office or local Aervoe representative for examination. Because Seller cannot control Buyer's handling or use of product, Seller makes no warranty expressed or implied when not used or stored in accordance with directions. Seller shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement of product or credit of purchase.

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PRODUCTS	% SOLIDS BY WEIGHT	% SOLIDS BY VOLUME	COATING VOCs
300 Safety Purple	63	58	330 g/L
301 Safety Red	61	56	334 g/L
302 Safety Yellow	63	56	328 g/L
303 Safety Blue	61	57	339 g/L
304 Safety Green	62	58	340 g/L
305 Safety Orange	61	56	333 g/L
306 Safety Black	61	52	338 g/L
307 Safety White	67	54	335 g/L
308 Brite Red	61	52	338 g/L
309 Aluminum	60	52	350 g/L
312 Flat Black	73	62	280 g/L
317 Tan	64	61	340 g/L
318 Light Blue	67	57	337 g/L
319 Royal Blue	62	57	327 g/L
320 Forest Green	62	57	333 g/L
322 Equipment Orange	61	56	378 g/L
344 Satin Black	72	60	291 g/L
348 Meter Green	63	59	333 g/L
349 Meter Gray	65	57	332 g/L
361 Light Gray	66	54	340 g/L

SURFACE PREPARATION, APPLICATION AND EQUIPMENT RECOMMENDATION SHEET

1300 DIRECT TO METAL (DTM) SOLVENT-BASED RUST PROOFING PAINT (VOC < 340 g/L) - 09/14

SURFACE PREPARATION

BARE METAL

Remove all dust, dirt, grease, or chemical contaminants by washing surface with Aervoe #399 or 400, Cleaner/Degreaser, or other suitable cleaner. Allow to dry before application.

PREVIOUSLY COATED

Apply to properly primed or previously coated surfaces (scuff glossy surfaces then clean). If immoderate period of time has past since coating was applied, then remove all dust, dirt, grease, or chemical contaminants by washing surface with Aervoe #399 or 400 Cleaner/Degreaser, a commercial detergent, or other suitable cleaner. Rinse thoroughly with water and allow to dry before application.

APPLICATION

For best results apply when air and surface temperatures are between 50° & 90° F (10° & 32° C), and the surface is at least 5° F above the dew point.

THINNING

Brush/Roller

Thinning is generally not required but if needed use 5% - 15% (approx. 1/2 pint per gallon) Mineral Spirits or Aervoe 494 Fast Thinner.

Air-Atomized Spray

Use 5% - 15% Mineral Spirits or Acetone.

HVLP

Use 5% - 15% Mineral Spirits or Acetone.

Airless Spray

Use 5% - 15% Mineral Spirits or Acetone.

Cleanup

Acetone

EQUIPMENT

Brush

Use a good quality natural or synthetic bristle brush.

Roller

Use a good quality natural or synthetic cover. Use a short nap for smooth surfaces and a medium nap for rough surfaces.

Air-Atomized Spray

Pressure	Fluid x Air	Nozzle Type	30	50	70	Max Pattern	Fluid Needle
	Nozzles		psi	psi	psi		
	65SSx63PK	PE	11.0	16.5	22.0	15.0"	765
	63CSSx200	PI	3.1	5.2	6.4	12.0"	763A

Siphon

Fluid Nozzle	Air Nozzle	Needle Valve	Max Pattern	CFM			Fluid Flow*		
				20	30	40	20	30	40
66SS	66SD	865	12"@40psi	7.5	10.0	12.0	205	244	275

HVLP

Fluid Tip	Fluid Delivery	Atomizing Pressure
.043 - .070	8 - 14 oz. (min.)	60 - 90 psi (10 psi max at tip)

Airless Spray

	Pump Ratio	Fluid Tip	Fluid Pressure	Filter Mesh
High Gloss	30:1	.013 - .017	1600 - 2000 psi	100
Semi-Gloss	30:1	.013 - .017	1600 - 2400 psi	100
Flat	30:1	.015 - .019	1600 - 2400 psi	60
Metallic	30:1	.013 - .017	1600 - 2400 psi	60

* Fluid flow in cc/minute

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