



**V7400 SYSTEM  
DTM 340 VOC ALKYD ENAMEL**

**DESCRIPTION AND USES**

V7400 System DTM 340 VOC Alkyd Enamels are designed for indoor and outdoor steel surfaces. They provide excellent resistance to general weathering, salt air, mild chemical fumes and light abrasion in industrial and marine environments above the water line. Available in high gloss, semi-gloss, flat, and metallic finishes. Not for use on galvanized steel.

If desired, the V7400 System DTM 340 VOC Alkyd Enamels can be applied direct-to-metal (DTM); however optimal corrosion protection is achieved when the finish coat is used in conjunction with one of the recommended primers.

Semi-gloss finishes are designed for interior and sheltered exterior surfaces only.

V7400 System DTM 340 VOC enamels comply with USDA FSIS regulatory sanitation performance standards for food establishment facilities.

MPI #9, #48, #81, #96 Certified\*

**PRODUCTS**

**FLAT FINISHES**

1-Gallon	5-Gallon	Description
245387	—	Flat Black
245533	—	Flat White

**METALLIC FINISHES**

1-Gallon	5-Gallon	Description
245309	—	Aluminum
245402	—	Heavy-Duty Aluminum

**SEMI-GLOSS FINISHES**

1-Gallon	5-Gallon	Description
245482	—	Semi-Gloss Pleasant Green
245481	—	Semi-Gloss Lt. Neutral Gray
245483	—	Semi-Gloss White

**PRODUCTS (cont.)**

**HIGH GLOSS FINISHES**

1-Gallon	5-Gallon	Description
245308	—	Almond
245380	—	Chestnut Brown
245381	—	Clear (Clear-Sele®)
245382	245383	Dunes Tan
245385	245386	Fire Hydrant Red
245388	245389	Forest Green
245400	245401	John Deere Green
245403	245405	High Gloss Black
245406	245407	High Gloss White
245408	—	International Orange
245409	—	Machine Tool Gray
245440	—	Marlin Blue
245441	245442	National Blue
245443	245444	Navy Gray
245474	245475	Safety Blue
245476	—	Safety Green
245477	—	Safety Orange
245478	—	Safety Red
245479	245480	Safety Yellow
245484	245485	Silver Gray
245486	—	Tile Red
245487	—	Vista Green
245488	—	Yellow
245489	—	New Caterpillar Yellow
245500	—	Old Caterpillar Yellow

**TINT BASES†**

1-Gallon	5-Gallon	Description
245515	—	Red
245516	—	Yellow
245517	245530	Masstone
245518	245531	Deep
245519	245532	Light

†All tint bases are high gloss finishes

**COMPANION PRODUCTS**

**RECOMMENDED PRIMERS**

1-Gallon	5-Gallon	Description
V7086402	V7086300	Gray Primer
V769402	V769300	Red Primer
258887	—	White Primer

\* Refer to the MPI website for the most current listing of MPI certified products.



**PRODUCT APPLICATION**

**SURFACE PREPARATION**

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength® Cleaner/Degreaser, item #3599402, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove all loose rust, mill scale, and deteriorated previous coatings. If abrasive blasting cleaning is used, then two coats of recommended primer is required. See the primer Technical Data Sheet for more information.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The Rust-Oleum Alkyd Enamel Primers are compatible with most coatings, but a test patch is suggested.

**APPLICATION**

Apply only when air and surface temperatures are between 32-100°F (0-38°C) and surface temperature is at least 5°F (3°C) above the dew point.

**EQUIPMENT RECOMMENDATIONS**

BRUSH: Use a good quality natural or polyester bristle brush.  
 ROLLER: Use a good quality natural or polyester cover. Use a short nap roller for smooth surfaces, and a medium nap roller for rough surfaces.

**AIR-ATOMIZED SPRAY:**

Method	Fluid Tip	Fluid Delivery	Atomizing Pressure
Pressure	0.055-0.070	16 oz./min.	25-60 psi
Siphon	0.055-0.070	—	25-60 psi
HVLP (var.)	0.043-0.070	8-14 oz./min.	60-90 psi*

\*10 psi maximum at tip

**AIRLESS SPRAY (HIGH GLOSS):**

Pump Ratio	Fluid Pressure	Fluid Tip	Filter Mesh
30:1	1,600-2,400 psi	0.013-0.017	100

**AIRLESS SPRAY (ALL OTHERS):**

Pump Ratio	Fluid Pressure	Fluid Tip	Filter Mesh
30:1	1,600-2,400 psi	0.013-0.019	60

**THINNING**

BRUSH/ROLLER: Normally not required.  
 AIR-ATOMIZED SPRAY: 333402 Thinner: Use up to 15% by volume.  
 AIRLESS SPRAY: 333402 Thinner: Normally not required. If needed use up to 5% by volume.

**CLEAN-UP**

333402 Thinner.

**PERFORMANCE CHARACTERISTICS**

**PENCIL HARDNESS**

METHOD: ASTM D3363  
 RESULT: 5B

**GLOSS AT 60°**

METHOD: ASTM D523  
 RESULT: High Gloss Finishes 80-100 degrees  
 Semi-Gloss Finishes 40-60 degrees

**IMPACT RESISTANCE (direct)**

METHOD: ASTM D2794  
 RESULT: >60

**ACCELERATED WEATHERING (% gloss retention)**

METHOD: ASTM D4587, QUV Type A bulb, 450 hours  
 RESULT: 78% Gloss Retention (color-black)

**TABER ABRASION**

METHOD: ASTM D4060, CS-10 wheels, 500 gram load, 1000 cycles  
 RESULT: 21.2 mg loss

For chemical and corrosion resistance see page 6 of the Rust-Oleum Industrial Brands Catalog Form #275585.



## TECHNICAL DATA

# V7400 SYSTEM DTM 340 VOC ALKYD ENAMEL

### PHYSICAL PROPERTIES

		HIGH GLOSS FINISHES	TINT BASES	FLAT	METALLIC
<b>Resin Type</b>		Modified alkyd	Modified alkyd	Modified alkyd	Modified alkyd
<b>Pigment Type</b>		Varies with color	Varies with color	Varies with color	Leafing and non-leafing aluminum
<b>Solvents</b>		Aliphatic and aromatic hydrocarbons	Aliphatic and aromatic hydrocarbons	Aliphatic and aromatic hydrocarbons	Aliphatic and aromatic hydrocarbons
<b>Weight</b>	<b>Per Gallon</b>	8.6-9.8 lbs.	10.6-10.9 lbs.	11.4-11.7 lbs.	7.9-8.3 lbs.
	<b>Per Liter</b>	1.0-1.2 kg	1.3 kg	1.4 kg	0.9-1.0 kg
<b>Solids</b>	<b>By Weight</b>	45.6-57.7%	64-66%	71-75%	49-51%
	<b>By Volume</b>	42.4-46.7%	48.5-50.0%	51-56%	37-39%
<b>Volatile Organic Compounds</b>		<340 g/l (2.83 lbs./gal.)	<340 g/l (2.83 lbs./gal.)	<340 g/l (2.83 lbs./gal.)	<500 g/l (4.20 lbs./gal.)
<b>Recommended Dry Film Thickness (DFT) Per Coat</b>		1.5-2.5 mils (37.5-62.5µ)	1.5-2.5 mils (37.5-62.5µ)	1.5-2.5 mils (37.5-62.5µ)	1.0-1.5 mils (25-37.5µ)
<b>Wet Film to Achieve DFT</b>		3.5-5.5 mils (87.5-137.5µ)	3.0-5.0 mils (75-125µ)	3.0-4.5 mils (75-112.5µ)	3.0-4.0 mils (75-100µ)
<b>Theoretical Coverage at 1 mil DFT (25µ)</b>		680-750 sq.ft./gal. (16.7-18.5 m <sup>2</sup> /l)	778-802 sq.ft./gal. (19.1-19.7 m <sup>2</sup> /l)	818-898 sq.ft./gal. (20.1-22.1 m <sup>2</sup> /l)	590-625 sq.ft./gal. (13.5-15.4 m <sup>2</sup> /l)
<b>Practical Coverage at Recommended DFT (assumes 15% material loss)</b>		230-425 sq.ft./gal. (5.7-10.5 m <sup>2</sup> /l)	285-450 sq.ft./gal. (6.5-11.1 m <sup>2</sup> /l)	275-510 sq.ft./gal. (6.8-12.5 m <sup>2</sup> /l)	330-530 sq.ft./gal. (8.2-13.0 m <sup>2</sup> /l)
<b>Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity</b>	<b>Tack-free</b>	2-4 hours	2-4 hours	2-4 hours	2-4 hours
	<b>Handle</b>	4-8 hours	4-8 hours	4-8 hours	5-9 hours
	<b>Recoat</b>	24 hours	24 hours	24 hours	24 hours
<b>Dry Heat Resistance</b>		212°F (100°C)	212°F (100°C)	212°F (100°C)	350°F (177°C)
<b>Shelf Life</b>		5 years	5 years	5 years	5 years
<b>Safety Information</b>	<b>Warning!</b>	<b>COMBUSTIBLE LIQUID AND VAPOR. LIQUID AND VAPOR HARMFUL IF INHALED. MAY AFFECT THE NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE NOSE, THROAT, EYE AND SKIN IRRITATION. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.</b>			

Calculated values are shown and may vary slightly from the actual manufactured material.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, Illinois 60061  
An RPM Company

Phone: 877-385-8155  
[www.rustoleum.com/industrial](http://www.rustoleum.com/industrial)

Form: GDH-576  
Rev.: 063015