RUST-OLEUM® HIGH PERFORMANCE®

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, satin, and flat finishes should be limited to interior and sheltered exterior use 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
323807	—	Semi-Gloss Black
323811	—	Semi-Gloss Gray

SATIN FINISHES

1-Gallon	5-Gallon	Description
323808	—	Satin Black
323812	—	Satin Gray
323817	—	Satin 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	—	High Gloss Red
245516	—	High Gloss Yellow
245517	245530	High Gloss Masstone
245518	245531	High Gloss Deep
245519	245532	High Gloss Light
323815	—	Semi-Gloss Masstone
323809	—	Semi-Gloss Deep
323813	—	Semi-Gloss Light
323816	—	Satin Masstone
323810	—	Satin Deep
323814	—	Satin Light

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.

Form: GDH-576
Rev.: 100317

V7400 SYSTEM DTM 340 VOC ALKYD ENAMEL

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Original Cleaner Degreaser, 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 are 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
Semi-Gloss Finishes: 40-60
Satin Finishes: 20-35
Flat Finishes: 0-10

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.

RUST-OLEUM® HIGH PERFORMANCE

TECHNICAL DATA

V7400 SYSTEM DTM 340 VOC ALKYD ENAMEL

PHYSICAL PROPERTIES

		FINISHES	TINT BASES	FLAT	METALLIC
Resin Type		Modified Alkyd	Modified Alkyd	Modified Alkyd	Modified Alkyd
Pigment Type		Varies with color	Varies with color	Varies with color	Leafing and non-leafing aluminum
Solvents		Aliphatic and Aromatic Hydrocarbons	Aliphatic and Aromatic Hydrocarbons	Aliphatic and Aromatic Hydrocarbons	Aliphatic and Aromatic Hydrocarbons
Weight	**Per Gallon**	8.6-10.8 lbs.	9.7-10.9 lbs.	11.4-11.7 lbs.	7.9-8.3 lbs.
	Per Liter	1.0-1.3 kg	1.1-1.3 kg	1.4 kg	0.9-1.0 kg
Solids	**By Weight**	45.6-65.8%	61-66%	71-75%	49-51%
	By Volume	42.4-49.3%	48.5-50.0%	51-56%	37-39%
Volatile Organic Compounds		<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)
Recommended Dry Film Thickness (DFT) Per Coat		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)
Wet Film to Achieve DFT		3.0-6.0 mils (75-150µ)	3.0-5.0 mils (75-125µ)	3.0-4.5 mils (75-112.5µ)	3.0-4.0 mils (75-100µ)
Theoretical Coverage at 1 mil DFT (25µ)		680-790 sq.ft./gal. (16.7-19.5 m^2/l)	778-802 sq.ft./gal. (19.1-19.7 m^2/l)	818-898 sq.ft./gal. (20.1-22.1 m^2/l)	590-625 sq.ft./gal. (13.5-15.4 m^2/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		230-450 sq.ft./gal. (5.7-11.1 m^2/l)	285-450 sq.ft./gal. (6.5-11.1 m^2/l)	275-510 sq.ft./gal. (6.8-12.5 m^2/l)	330-530 sq.ft./gal. (8.2-13.0 m^2/l)
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	**Tack-free**	2-4 hours	2-4 hours	2-4 hours	2-4 hours
	Handle	4-8 hours	4-8 hours	4-8 hours	5-9 hours
	Recoat	24 hours	24 hours	24 hours	24 hours
Dry Heat Resistance		212°F (100°C)	212°F (100°C)	212°F (100°C)	350°F (177°C)
Shelf Life		5 years	5 years	5 years	5 years
Safety Information		For additional information, see SDS			

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