RUST-OLEUM® HIGH PERFORMANCE®

7400 SYSTEM
450 VOC ALKYD ENAMEL PRIMERS

DESCRIPTION AND USES

769® Damp Proof Red Primer is a special modified alkyd primer designed specifically to protect rusted steel against further rust and corrosion. Use on rusted steel surfaces where only minimal surface preparation (scraping and wire brushing) is practical.

Heavy duty rust inhibitive primers are special high solids alkyd primers with rust-inhibitive pigmentation for heavy-duty corrosion protection of steel surfaces subjected to extreme rust-producing environments, such as coastal areas or heavy industrial atmospheres. Use on clean, heavily rusted, lightly rusted, abrasive blasted or previously painted surfaces.

Zinc chromate primers are general purpose, rust-inhibitive, modified alkyd primers designed for lightly rusted, bare, abrasive blasted or previously painted surfaces. May be used as intermediate coats for maximum corrosion protection.

These primers are not for use on galvanized steel.

PRODUCTS

769® DAMP PROOF RED PRIMER

1-Gallon	5-Gallon	Description
769402	769300	Red

HEAVY DUTY RUST-INHIBITIVE PRIMERS

1-Gallon	5-Gallon	Description
1060402	—	Gray
1069402	1069300	Red

ZINC CHROMATE RUST-INHIBITIVE PRIMERS

1-Gallon	5-Gallon	Description
960402	960300	Yellow
X60402	—	Red

COMPANION PRODUCTS

RECOMMENDED TOPCOATS

7400 System DTM 450 VOC Alkyd Enamel
(#960402 and #X60402 as intermediate primers)

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. Abrasive blasting to a minimum Commercial Grade (SSPC-SP-6,NACE 3) with a 1-2 mils (25-50µ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats of primer. 769 is intended for sound rusted steel only. **Do not use** 769 on clean or abrasive clean steel.

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® Industrial Enamel Primers are compatible with most coatings, but a test patch is suggested. WARNING! If you scrape, sand or remove old paint from any surface, you may release lead paint dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to contol lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information contact the U.S.EPA/Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

APPLICATION

Apply only when the air and surface temperatures are between 32-100°F (0-38°C) and the surface temperature is at least 5°F (3°C) above the dew point. Abrasive blast clean steel requires two coats of primer.

Form: 1018990
Rev.: 111411

7400 SYSTEM 450 VOC ALKYD ENAMEL PRIMERS

PRODUCT APPLICATION (cont.)

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality natural or synthetic bristle brush.

ROLLER: Use a good quality natural or synthetic cover.

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atom. Pressure
Pressure	0.055-0.070	10-16 oz./min.	25-60 psi
Siphon	0.055-0.070	—	25-60 psi
HVLP (var.)	0.043-0.070	8-10 oz./min. 10 psi at the tip	

AIRLESS SPRAY:

Fluid Pressure	Fluid Tip	Filter Mesh
1600-2400 psi	0.013-0.017	100

THINNING

BRUSH/ROLLER: 333 Thinner: Normally not required. Use 5-10% if needed (approximately ½ pint per gallon).

AIR ATOMIZED SPRAY: 333 Thinner: Use 10-20% or as needed (approximately 1½ pints per gallon).

AIRLESS SPRAY: 333 Thinner: Thinning normally not required. Use 5-10% if needed (approximately ½ pint per gallon).

CLEAN UP

633402 Thinner or mineral spirits.

PERFORMANCE CHARACTERISTICS

System Tested

Primer: 769 Damp Proof Red Primer

Topcoat: N/A

PENCIL HARDNESS

METHOD: ASTM D3363, 30 days

RESULT: 5B

CONICAL FLEXIBILITY

METHOD: ASTM D522

RESULT: 10.8% elongation

IMPACT RESISTANCE (direct/reverse)

METHOD: ASTM D2794

RESULT: 106 in.–lbs./60 in.–lbs.

TABER ABRASION

METHOD: ASTM D4060, CS10 wheel, 1000 cycles, 500 load

RESULT: 67 mg loss

For chemical and corrosion resistance,see page 4 of the Rust-Oleum Industrial Brands Catalog (Form #206275.)

7400 SYSTEM 450 VOC ALKYD ENAMEL PRIMERS

PHYSICAL PROPERTIES

		769 DAMP PROOF	1060/1069 HEAVY-DUTY	960/X60 RUST-INHIBITIVE
Resin Type		Modified alkyd	Modified alkyd	Modified alkyd
Pigment Type		Zinc molybdate, red iron oxide	Titanium dioxide, strontium zinc phosphosilicate, brown iron oxide (1069 only)	Zinc chromate (X60/960), strontium zinc phosphosilicate (1280 only)
Solvents		Aliphatic hydrocarbons	Aliphatic hydrocarbons	Aliphatic hydrocarbons
Weight	**Per Gallon**	11.4 lbs.	11.8-12.0 lbs.	10.4-10.7 lbs.
	Per Liter	1.4 kg	1.4-1.5 kg	1.2-1.3 kg
Solids	**By Weight**	69.0%	76.5-76.8%	62-66%
	By Volume	45.2%	57-58%	40-43%
Volatile Organic Compounds		<450 g/l (3.8 lbs./gal.)	<340 g/l (2.83 lbs./gal.)	<450 g/l (3.8 lbs./gal.)
Recommended Dry Film (DFT) Per Coat		1-2 mils (25-50µ)	1.5-2.5 mils (37.5-62.5µ)	1-2 mils (25-50µ)
Wet Film to Achieve DFT (unthinned material)		2-4.5 mils (50-112.5µ)	2.5-4.5 mils (62.5-112.5µ)	2.5-5.0 mils (62.5-125.0µ)
Theoretical Coverage at 1 mil DFT (25µ)		725 sq. ft./gal. (17.8 m^2/l)	914-930 sq. ft./gal. (22.5-22.9 m^2/l)	640-690 sq. ft./gal. (15.7-17.0 m^2/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		305-615 sq. ft./gal. (7.5-15.1 m^2/l)	310-520 sq. ft./gal. (7.6-12.8 m^2/l)	270-585 sq. ft./gal. (6.6-14.4 m^2/l)
Dry Times at 77°F (25°C) and 50% Relative Humidity	**Tack-free**	3-5 hours	3-5 hours	2-4 hours
	Handle	5-9 hours	5-10 hours	4-6 hours
	Recoat	24-48 hours	24-48 hours	24 hours
Force Cure		30 minutes at 225°F (107°C) (dry to handle after cooling)	30 minutes at 225°F (107°C) (dry to handle after cooling)	30 minutes at 225°F (107°C) (dry to handle after cooling)
Dry Heat Resistance		212°F (100°C)	212°F (100°C)	960/1280: 212°F (100°C) X60: 350°F (177°)
Shelf Life		5 years	5 years	5 years
Specifications		Can be used in USDA-regulated facilities based on FSIS Directive11,000.4 (Rev.4), November 24,1995.	Can be used in USDA-regulated facilities based on FSIS Directive11,000.4 (Rev.4), November 24,1995.	Can be used in USDA-regulated facilities based on FSIS Directive11,000.4 (Rev.4), November 24,1995.
Safety Information	**Contains**	Lead-free	Lead-free	Lead-free
	Warning!	**COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY AFFECT BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES 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.**		

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®
INDUSTRIAL BRANDS

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