

# 8400 SYSTEM FOOD AND BEVERAGE ALKYD ENAMEL

# **DESCRIPTION AND USES**

8400 System Food and Beverage Alkyd Enamels are designed for use in food processing plants and other areas where mold and mildew are a concern. This modified alkyd coating contains additives to prevent mold and mildew growth in the dried paint film. May be applied to surfaces at temperatures as low as 18°F (-8°C). Not for use on galvanized steel.

8469 Red Rusted Metal Primer is a rust-inhibitive primer designed on sound rusted steel, and clean or abrasive blast clean steel surfaces.

8492 White Clean Metal Primer is a rust-inhibitive primer designed for use on clean steel surfaces or as an intermediate primer.

The 8400 Food and Beverage System complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities.

# PRODUCTS 1-Gallon 5-Gallon Description 8469402 — Red Rusted Metal Primer 8492402 — White Clean Metal Primer 8494402 — High Gloss Dairy White 266690 — Safety Yellow

## PRODUCT APPLICATION

#### **SURFACE PREPARATION**

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength<sup>®</sup> Cleaner/Degreaser item #3599402, commercial detergent or other suitable cleaner. Mold and mildew must be removed with a chlorinated cleaner, bleach solution or Zinsser Perma-Wash<sup>™</sup>. 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.

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.

# **PRODUCT APPLICATION (cont.)**

#### **APPLICATION**

Apply only when air and surface temperatures are between 18-100°F (-8-38°C). Surfaces must be frost-free and at least 5°F above dew point.

#### **EQUIPMENT RECOMMENDATIONS**

(Comparable Equipment Also Suitable)

BRUSH: Use good quality natural or synthetic bristle brush. ROLLER: Use good quality natural or synthetic 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	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 1,600–2,400 psi 0.013-0.017 100

#### **THINNING**

BRUSH/ROLLER: Normally not required. Do not thin if VOC limit is 420 g/l. If VOC limit is 450 g/l coating may be thinned up to 6% with 633402 Thinner as needed.

AIR ATOMIZED SPRAY: If VOC limit is 420 g/l use 10-15% 333402 Thinner as needed. If VOC limit is 450 g/l coating may be thinned up to 6% with 641402 Thinner as needed.

AIRLESS SPRAY: If VOC limit is 420 g/l use 5-10% 333402 as needed. If VOC limit is 450 g/l coating may be thinned up to 6% with 641402 Thinner as needed.

#### **CLEAN UP**

633402 or 641402 Thinners.

Form: GDH-652 Rev.: 041515

# RUST-OLEUM®

# **TECHNICAL DATA**

# 8400 SYSTEM FOOD AND BEVERAGE ALKYD ENAMEL

# PERFORMANCE CHARACTERISTICS

# **System Tested**

Primer: N/A

Topcoat: 8400 System Food and Beverage Alkyd Enamel

## **PENCIL HARDNESS**

METHOD: ASTM D3363

**RESULT: 5B** 

## **CONICAL FLEXIBILITY**

METHOD: ASTM D522

RESULT: >33%

## **CYCLIC PROHESION**

## Rating 1-10, 10=best

METHOD: ASTM D5894, 3 cycles, 1008 hours RESULT: 10 per ASTM D714 for blistering RESULT: 9 per ASTM D610 for rusting

# **IMPACT RESISTANCE (direct)**

METHOD: ASTM D2794 RESULT: >160 in.-lbs.

#### **TABER ABRASION**

METHOD: ASTM D4060, CS-17 wheels, 1000 gram load,

1000 cycles

RESULT: 62 mg loss

## GLOSS (60°)

METHOD: ASTM D4587 RESULT: 93% (color-white)

For chemical and corrosion resistance, see the Rust-Oleum Industrial Brands Catalog (Form #275585).

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# **TECHNICAL DATA**

# 8400 SYSTEM FOOD AND BEVERAGE ALKYD ENAMEL

# PHYSICAL PROPERTIES

		8400 SYSTEM PRIMERS	8400 SYSTEM FINISHES	
Resin Type		Modified Alkyd	Modified Alkyd	
Pigment Type		Iron Oxide, Zinc Phospho Oxide, Talc, and Calcium Carbonate	Titanium Dioxide, Inorganic Yellow, Organic Yellow	
Solvents		Aliphatic Hydrocarbons	Aliphatic Hydrocarbons	
Weight	Per Gallon	10.5-11.3 lbs.	8.1-8.8 lbs.	
	Per Liter	1.2-1.3 kg	1.0-1.3 kg	
Solids	By Weight	67-70%	54-56%	
	By Volume	45-46%	39-42%	
Volatile Organic Compounds		<420 g/l (3.5 lbs./gal.)	<420 g/l (3.5 lbs./gal.)	
Recommended Dry Film Thickness (DFT) Per Coat		1-2 mils (25-50µ)	1-2 mils (25-50μ)	
Wet Film to Achieve DFT (unthinned material		2.5-4.5 mils (62.5-112.5µ)	2.0-4.5 mils (50-112.5μ)	
Theoretical Coverage at 1 mil DFT (25µ)		720-740 sq.ft./gal. (17.7-18.2 m²/l)	625-675 sq.ft./gal. (15.3-16.6 m²/l)	
Practical Coverage at Recommended DFT (assumes 15% material loss)		310-630 sq.ft./gal. (7.6-15.5 m²/l)	265-575 sq.ft./gal. (6.5-14.1 m²/l)	
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Tack-free	2-4 hours	2-4 hours	
	Handle	4-6 hours	4-6 hours	
	Recoat	24 hours	24 hours	
Dry Heat Resistance		212°F (100°C)	212°F (100°C)	
Shelf Life		5 years	5 years	
Safety Information		WARNING! FLAMMABLE 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

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