

# RUST TOUGH® ENAMEL ALKYD RUST PREVENTIVE

## Product Data Sheet

KRYLON

INDUSTRIAL  
COATINGS™

### DESCRIPTION

**Rust Tough® Alkyd Enamel** is a rust-inhibitive, patented acrylic modified alkyd, that can be used direct-to-metal without a primer. It is fast drying and has a high-gloss finish. Rust Tough is lead, chromate and barium-free. Available in a wide variety of the most popular packaged colors, as well as, custom colors to meet your painting needs. Acceptable for use in federally inspected meat and poultry plants for incidental food contact.

### RECOMMENDED USES

For industrial and commercial applications on steel, aluminum, galvanized metal, and wood to protect against atmospheric corrosion.

- Interior and exterior
- Premium, high solids shopcoat primer
- Fast drying maintenance primer
- Specifically designed to provide a long-lasting, corrosion resistant finish
- Applications:

Structural Steel	Conveyors
Storage Tanks	Ladders
Bar Joists	Fencing
Handrails	Machinery
Piping	Metal Doors
Pipe Racks	Shelving
Safety Markings	
Marine-Above Boot Topping	

### PERFORMANCE INFORMATION

- Primers and topcoats are corrosion resistant
- Less than 420 grams/liter Volatile Organic Content (VOC)
- Corrosion and rust undercutting resistant
- Excellent color and gloss retention
- Low odor

### SURFACE PREPARATION

Surface must be dry and in sound condition. Remove oil, dirt, dust, loose rust, peeling paint and other contaminants to provide good adhesion.

### PREVIOUSLY PAINTED SURFACES

Remove dirt, dust and oil by detergent wash and thorough rinse. Allow to dry. Remove all loose rust and paint by hand or power tool. Dull glossy surfaces by sanding or "sweep" abrasive blasting. For surfaces pitted from rust, use Rust Tough Primer for best results. New or clean metal surfaces do not require primer.

### SURFACE PREPARATION cont.

#### Iron & Steel

For maximum durability of coating system, commercial Blast Clean in accordance with SSPC-SP6. Minimum surface preparation is Hand Tool Cleaning SSPC-SP2 or Power Tool Cleaning SSPC-SP3. Apply first coat the same day as cleaning.

#### Aluminum

Remove all oil, grease, dirt, oxide and other contaminants by Solvent Cleaning SSPC-SP1. Rust Tough is self-priming.

#### Galvanized Metal

Use only with Krylon Industrial Coatings - Galvanized Metal Primer, (K00024000).

#### Wood

Surface must be clean, dry and sound. Knots and pitch streaks must be scraped, sanded and spot primed with Rust Tough Alkyd Primer prior to application of topcoats. Two full coats are recommended.

### APPLICATION

Mix thoroughly by mechanical shaker or stirring. For best results, brush prime all welds, sharp edges and crevices prior to application of full prime coat.

### RECOMMENDED SYSTEM

Use full body for best results. Thinning is not normally required. However, if conditions require thinning, reduce up to 1 pt. per gallon with Rust Tough Thinner. For best results and maximum corrosion protection, use two topcoats @ 4.5 mils wet (2 dry mil/coat).

### APPLICATION CONDITIONS

**TEMPERATURE:** (air, surface, material)  
40° - 120°F (at least 5°F above dew point)

**RELATIVE HUMIDITY:** 90% maximum

### APPLICATION METHODS

**BRUSH/ROLL:** No thinning suggested

#### CONVENTIONAL SPRAY:

Gun: DeVilbiss JGA 502\*, Atomization Pressure: 50 psi  
Fluid Pressure: 20-25 psi, Air Cap: 704 cap  
Fluid Nozzle: E Tip, \*(or equivalent equipment)

#### HVLP SPRAY:

Gun: DeVilbiss JGHV\*, Atomization Pressure: 70 psi  
Fluid Pressure: 25 psi, Air Cap: 46 MP cap  
Fluid Nozzle: .070 Tip & Needle, Fluid and Air Hose: 5/16" or larger \*(or equivalent equipment)

#### AIRLESS SPRAY:

Pressure: 2500 psi, Tip: .015" - .019", Filter: 100 mesh

**REDUCER:** Rust Tough Thinner/Mineral Spirits

## APPLICATION cont.

### REDUCTION:

- Brush/Roll: No thinning suggested
- Conventional: Up to 1 pint/gal as required
- HVLP: Up to 1 pint/gal as required
- Airless: Not normally required, up to 1/2 pint per gallon if required.

**CLEAN-UP:** Mineral Spirits. Please follow supplier's safety instructions.

## CHARACTERISTICS

(Resistance to fumes, splash and spillage non-immersion ASTM D3912)

- |  |          |
|--|----------|
| • Aliphatic hydrocarbon solvents         | Light    |
| • Alkalis                                | Light    |
| • Aromatic hydrocarbon solvents          | Severe   |
| • Chlorinated solvents                   | Severe   |
| • Fresh water & salt water               | Light    |
| • Glycol ethers, alcohols, formaldehyde  | Moderate |
| • Inorganic acids                        | Moderate |
| • Oils (cutting, vegetable, lubricating) | Light    |
| • Organic acids                          | Moderate |
| • Oxygenated solvents                    | Moderate |

### PHYSICAL PROPERTIES

- |  |           |
|--|-----------|
| • Abrasion Resistance (ASTM-D4060)     | 54 grams  |
| • Direct Impact Resistance (ASTM-G14)  | 80 lbs    |
| • Reverse Impact Resistance (ASTM-G14) | 10 lbs    |
| • Dry Heat Resistance (ASTM-D2485)     | 300°F*    |
| • Exterior Durability                  | Excellent |
| • Flexibility (ASTM-D522)              | 1/8" bend |
| • Pencil Hardness (ASTM-D3363)         | 2 - 4 H   |
| • Salt Fog Resistance (ASTM-B117)      | 500 hrs   |
| • Corrosion / Weathering Resistance    | 6 cyc.    |
| • Wet Heat Resistance (non-immersion)  | 100°F     |

\* Paint film yellows but remains protective and intact.

### COLORS:

- Primer: Red Oxide and Gray
- Flat: Black and White
- Semi-Gloss: Black and White
- Gloss: Black, White, OSHA, 3 Tint Bases, implement, and popular factory packaged colors

### GLOSS LEVEL:

- Primer <5 units @ 60° angle
- Flats <5 units @ 60° angle
- Semi-Gloss >30 and <50 units @ 60° angle
- Gloss 80+ units @ 60° angle

**CURING MECHANISM:** Oxidation

## CHARACTERISTICS cont.

**DRYING SCHEDULE:** Temperature and humidity @ 77°F (25° C) and 50% relative humidity @ 4 mils wet  
To touch: 1 - 2 hours  
To handle: 4 - 8 hours  
To recoat: 12 - 24 hours  
Tack free: 2 - 4 hours

**FORCE DRY SCHEDULE:** @ (not more) ≤175°F, 10 - 20 minutes

**FLASH POINT:** 100°F (Pensky-Martens Closed Cup)

**NUMBER OF COMPONENTS:** 1

### PACKAGING:

- Aerosols: 20 oz. Can
- Bulk: 1 gallon and 5 gallon pails
- 53 gallon drums available upon request

### RECOMMENDED SPREADING RATE:

- Theoretical, no loss
- Primers: 372 sq ft/gallon @ 4.5 wet mils, 2 dry mils
- Topcoats: 361-369 sq ft/gallon @ 4.5 wet mils, 2 dry mils

### SPREADING RATE:

- Theoretical, no loss
- Primers: 743 sq ft/gallon @ 1 dry mil
- Topcoats: 722-738 sq ft/gallon @ 1 dry mil

**SHELF LIFE:** 18 months unopened @ 77°F

### VOLATILE ORGANIC CONTENT (VOC):

- Less than 420 gms/ltr or 3.5 lbs/gal

### VOLUME SOLIDS:

- Primers: 46% ± 2%
- Topcoats: 46% ± 2%

### WEIGHT/GALLON:

- Primers: 10.7 ± 0.1 lb/gal.
- Topcoats: 7.9-9.9 ± 0.1 lb/gal

### SHIPPING WEIGHT:

- Primers: 11.5 lbs/gal avg.
- Topcoats: 9.5 lbs/gal avg.

## CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Krylon Industrial Coatings™ Distributor. Please direct any questions or comments to your local Krylon Industrial Coatings™ Distributor.

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