



# IRON GUARD® PRIMER

K000Z6631

Iron Guard Primer is a single component, fast drying, rust inhibitive acrylic primer designed for both new construction and maintenance applications. This formulation provides early moisture resistance and low temperature application.

- ✓ Single component
- ✓ Rust inhibitive
- ✓ Early moisture resistance
- ✓ Fast dry
- ✓ May be applied in temperatures as low as 40°F
- ✓ Interior/Exterior use
- ✓ Suitable for use in USDA-inspected facilities

**INDUSTRIAL USE ONLY!**  
AS OF 01/01/16 COMPLIES WITH:

- OTC
- EC
- SCAQMD
- CARB
- LADCO

**krylonindustrial.com**  
1-800-247-3266

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## RECOMMENDED USES

- Steel
- Iron
- Aluminum
- Galvanized Metal
- Previously Painted Surfaces

## RECOMMENDED SYSTEMS

### Steel, Aluminum, Galvanized Metal, Previously Painted (Waterborne Topcoat):

1 coat Krylon Industrial Iron Guard Primer

1-2 coats Krylon Industrial Iron Guard Acrylic Enamel or Krylon Industrial Waterborne Acrylic Enamel or Krylon Industrial PalGard® Epoxy

### Steel, Aluminum, Galvanized Metal, Previously Painted (Solvent Based Topcoat):

1 coat Krylon Industrial Iron Guard Primer

1-2 coats Krylon Industrial Tough Coat® Alkyd Enamel

## SURFACE PREPARATION

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. **Do not use hydrocarbon solvents for cleaning.**

### Iron and Steel:

Minimum surface preparation is Hand Tool Clean SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3. Primer recommended for best performance.

### Aluminum:

Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

### Galvanized Metal:

Surface should be exterior weathered for 6 months prior to painting. Remove all oil and grease per SSPC-SP1. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2. Prime clean area the same day with Iron Guard Primer.

### Previously Painted Surfaces:

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface.

## CLEAN-UP

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

**TECHNICAL DATA**

<b>Vehicle</b>	Acrylic
<b>Finish</b>	Low sheen (5-15 units @ 60°)
<b>Color</b>	White
<b>Volume Solids</b>	36 ± 2%
<b>Weight Solids</b>	49 ± 2%
<b>Weight/Gallon</b>	10.2 lb/gal
<b>VOC</b> (less exempt solvents)	96 g/L – 0.80 lb/gal as per 40 CFR 59.406
<b>Rec. Film Thickness</b>	5.0 - 10.0 mils wet 2.0 - 4.0 mils dry
<b>Spread Rate</b>	156-312 sq. ft. per gallon
<b>Shelf Life</b>	36 months, unopened
<b>Application</b>	Apply by airless spray, conventional spray, brush or roller Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.
<b>Drying Time</b>	@ 6 mils wet, 50% R.H. Note: Drying times are temperature, humidity and film thickness dependant.
	@ 40°F      @ 77°F      @ 120°F
To Touch:	2 hours      40 mins      20 mins
Tack Free:	8 hours      2 hours      1 hour
To Recoat:	16 hours      4 hours      2 hours
To Cure:	45 days      30 days      14 days
<b>Reduction</b>	Water
<b>Clean-up</b>	Soap and Water
<b>Tinting</b>	Do not tint
<b>Sizes</b>	1 Gallon, 5 Gallon

**APPLICATION**

<b>Temperature</b> (air, surface and material)	40°F minimum, 120°F maximum. At least 5°F above dew point
<b>Relative humidity</b>	85% maximum
<b>Reducer/Clean-up</b>	Water
<b>Airless Spray</b>	
Pressure	2000 psi
Hose	1/4" ID
Tip	.015" - .019"
Filter	60 mesh
Reduction	Not recommended

**APPLICATION CONTINUED****Conventional Spray**

Gun	Binks 95 (or similar)
Fluid Nozzle	66
Air Nozzle	63PB
Atomization Pressure	60 psi
Fluid Pressure	25 psi
Reduction	As needed up to 5% by volume
<b>Brush</b>	
Brush	Nylon/polyester
Reduction	Not recommended
<b>Roller</b>	
Cover	3/8" woven solvent resistant core
Reduction	As needed up to 5% by volume

**PHYSICAL TEST DATA****System Tested**

Substrate	Steel
Surface Preparation	SSPC-SP10
Finish	1 coat Iron Guard Primer and 1 coat Iron Guard Enamel

**Adhesion**

Method	ASTM D4541
Result	500 psi

**Corrosion Weathering**

Method	ASTM D5894, 3360 hrs, 10 cycles
Result	Passes

**Direct Impact Resistance**

Method	ASTM D2794
Result	>140 in. lbs

**Dry Heat Resistance**

Method	ASTM D2485
Result	200°F

**Flexibility**

Method	ASTM D522, 180° bend, 1/4" mandrel
Result	Passes

**Moisture Condensation Resistance:**

Method	ASTM D2794
Result	>140 in. lbs

**Dry Heat Resistance**

Method	ASTM D2485
Result	200°F

**Flexibility**

Method	ASTM D522, 180° bend, 1/4" mandrel
Result	Passes



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The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Krylon Industrial. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Krylon Industrial dealer or representative to obtain the most recent Product Data Sheet.