



UNIVERSAL METAL PRIMER

K-S4700

Universal Metal Primer is a fast drying, high performance, high solids, rust inhibitive, alkyd metal primer designed for use over iron and steel substrates. Can be used as a universal primer under a high performance topcoat.

- ✓ High build to protect sandblasted steel
- ✓ Rust inhibitive
- ✓ Good corrosion protection
- ✓ Universal primer under high performance topcoats
- ✓ "Barrier" coat over conventional coating
- ✓ Premium shop coat primer
- ✓ Fast dry time
- ✓ Interior and exterior use

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> OTC | <input checked="" type="checkbox"/> CARB |
| <input checked="" type="checkbox"/> EC | <input checked="" type="checkbox"/> LADCO |
| <input checked="" type="checkbox"/> SCAQMD | |

krylonindustrial.com
1-800-247-3266

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RECOMMENDED USES

Use this product on properly prepared interior and exterior surfaces of steel and iron, including structural steel, tanks, machinery and equipment, piping, and pipe racks.

SPECIFICATIONS

Steel, Alkyd Topcoat

1 coat Krylon Industrial Universal Metal Primer
1-2 coats Krylon Industrial Tough Coat® Alkyd Enamel

Steel, Aluminum Finish

1 coat Krylon Industrial Universal Metal Primer
1-2 coats Krylon Industrial Tough Coat® Alkyd Enamel

Steel, Epoxy Topcoat

1 coat Krylon Industrial Universal Metal Primer
1-2 coats Krylon Industrial Pre-Cat Epoxy
or Krylon Industrial High Build Epoxy Mastic 100
or Krylon Industrial Palgard® Epoxy

Steel, Acrylic Topcoat

1 coat Krylon Industrial Universal Metal Primer
1-2 coats Krylon Industrial Waterborne Acrylic Enamel

Steel, Urethane Topcoat

1 coat Krylon Industrial Universal Metal Primer
1-2 coats Krylon Industrial Acrylic Urethane

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 & 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.

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 maybe necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface.

CAUTIONS

Mixing: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use. According to AISC, shop coat primers are intended for protection for only a short period of exposure in ordinary atmospheric conditions, and is considered a temporary and provisional coating. Not recommended for immersion service or exposure to acids or alkalis.

PERFORMANCE TIPS

- Clean the surface thoroughly
- Prepare the substrate to create a uniform surface.
- When using spray application, use a 50% overlap with each pass of the gun to avoid bare areas and pinholes. If necessary, spray at a right angle.
- Excessive reduction of product can affect film, build, appearance, and adhesion.
- In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene.

TECHNICAL DATA

Vehicle	Phenolic Acid		
Finish	Flat		
Color	Light Gray		
Flash Point	90°F (32°C), PMCC		
Volume Solids	63 ± 2%		
Weight Solids	81 ± 2%		
Weight/Gallon	13.7 lb/gal		
VOC (less exempt solvents)	314 g/L - 2.62lb/gal as per 40 CFR 59.406		
Rec. Film Thickness	Wet mils: 3.0 – 8.0 Dry mils: 2.0 – 5.0		
Spread Rate	195-490 sq. ft. per gallon		
Application	Apply by airless spray, brush or roller		
Drying Time	@ 4.0 mils wet, @50% RH Note: Drying times are temperature, humidity and film thickness dependent. @40°F @77°F @120°F		
To Touch:	1 hr	30 min	10 min
To Recoat:			
alkyds	6 hrs	2 hrs	1 hr
urethanes	24 hrs	24 hrs	6 hrs
acrylics	48 hrs	24 hrs	6 hrs
To Cure:	5 days	2 days	1 day
Reduction	Xylene		
Tinting	Do not tint		
Sizes	1 gallon, 5 gallon		
Shelf Life	36 months, unopened		
Mixing	Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use		

APPLICATION

Temperature	
(air, surface and material)	40°F min, 120°F max, at least 5°F above dew point
Airless Spray	85% maximum
Pressure	1800 psi
Hose	1/4" - 3/8" ID
Tip	.017" - .019"
Filter	60 mesh
Reduction	As needed up to 5% by volume
Brush	Brush Nylon/ Polyester
Reduction	Not recommended
Roller	Cover 1/4" – 3/8" woven solvent-resistant core
Reduction	Not Recommended

PHYSICAL TEST DATA

System Tested	(unless otherwise indicated)		
Substrate	Steel		
Surface Preparation	SSPC-SP2		
Primer	1 coat Krylon Industrial Universal Metal Primer		
Finish	2 coats Krylon Industrial Tough Coat (K00537250)		
Abrasion Resistance			
Method	ASTM D4060, 500 cycles, 500 gm load		
Result	46 mg loss		
Adhesion			
Method	ASTM D4541		
Result	392 psi		
Direct Impact Resistance			
Method	ASTM D2794		
Result	60 in. lbs.		
Dry Heat Resistance			
Method	ASTM D2485		
Result	250°F/121°C (discolors)		
Exterior Durability			
Method	1 year at 45° South		
Result	Excellent		
Flexibility			
Method	ASTM D522, 180° bend, 1" mandrel		
Result	Passes		
Moisture Condensation Resistance			
Method	ASTM D4585, 100°F/38°C, 500 hours		
Result	No blisters, rust, delamination, or creepage		
Pencil Hardness			
Method	ASTM D3363		
Result	H		
Salt Fog Resistance			
Method	ASTM B117, 500 hours		
Result	No softening, cracking, or delamination; No more than 1/33" rust creepage at scribe		
Thermal Shock			
Method	ASTM D2246, 15 cycles		
Result	Passes		

CLEAN UP

Clean spills and spatters immediately with Xylene. Follow manufacturer's safety recommendations when using Xylene solvents.



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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.