

# PRODUCT

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# INFORMATION



## Steeltech®

### Universal Alkyd HP Primer S4751 White; S4752 Red Oxide

#### DESCRIPTION :

Steeltech® Universal Primers are heavy duty, highly versatile, alkyd primers for use on structural steel and other ferrous metal substrates in a wide variety of industrial environments. As a primer, they may be topcoated with high performance coatings containing strong solvents such as epoxies and urethanes.

Steeltech® Universal Primers may also be used as a tie-coat or barrier coat between existing alkyd coatings and epoxy or urethane topcoats without lifting the old coating. This enables for old alkyd coating systems to be upgraded to higher performance coating systems.

#### USES :

Marine structures	Hand trucks	Hoists
Structural steel	Racking	Handrails
Machinery	Piping	Tank exteriors
Equipment	Bar joists	Steel siding

**SIZES :** Available in 1 gallon cans and 5 gallon containers.

#### SURFACE PREPARATION :

**Ferrous Metal** - must be free of dirt, oil, moisture, grease, mill scale, and rust. Clean according to SSPC SP-2 or SP-3, hand or power tool cleaning. For best results prepare surface according to SSPC SP-6, commercial blast clean. **Existing Coated Substrates** - must be in good, sound condition and free of dirt, oil, moisture, grease, mill scale, and rust.

**MIXING:** Mix well before use.

#### TECHNICAL DATA

<b>Vehicle:</b>	Alkyd - Phenolic Modified
<b>Components:</b>	One (colors: red and gray)
<b>Sheen:</b>	Flat
<b>Flash Point:</b>	45°F
<b>% Solids:</b>	By Volume: 52.0%
<b>VOC Level:</b>	3.38 lbs./gal. (405 gm/l) maximum
<b>Rec. Film Thickness:</b>	3.0 - 4.0 mils dry film
<b>Spreading Rate:</b>	204-273 sq. ft./gal. to achieve dry film thickness
<b>Pot Life:</b>	N/A
<b>Shelf Life:</b>	36 months

**Application:** Apply by airless spray or conventional spray. Brush or roller for touch-up only.

**Drying Time @ 77°F (25°C):** Set to touch 30 mins. Dry to handle 1 hour. Dry to re with itself: 1 hour. Recoat with high performance/hot solvent topcoats: 16 hrs. For maximum adhesion, acrylic topcoats require 48-72 hours drying of primer.

**Topcoats:** See recommended systems.

<b>Thinning:</b>	Not Recommended
<b>Cleanup:</b>	Xylene

**Limitations:** NOT INTENDED FOR IMMERSION SERVICE. Do not apply when surface temperature is less than 5°F (3°C) above the dew point. Do not apply when surface temperature is less than 50°F

**Heat Resistance:** Up to 250°F dry heat (121°C)

#### FOR INDUSTRIAL USE ONLY

Technical Information Line:  
1-800-BUY-PRAT (1-800-289-7728)

Website Address:  
[www.prattandlambert.com](http://www.prattandlambert.com)

## PHYSICAL TEST DATA

- Chemical Resistance: (24 hr. Spot Test)
  - 50% Sodium Hydroxide ..... Excellent
  - Motor Oil ..... Excellent
  - Water ..... Excellent
  - 10% HCl ..... Very Good
  - 10% Acetic Acid ..... Very Good
  - 10% Phosphoric ..... Poor
  - Lacquer Thinner ..... Fair
  - Methyl Ethyl Ketone ..... Very Good
  - Ammonia ..... Good

### Application: Recommended Equipment

**Airless:** .015 - .019 orifice tip  
1800 - 3000 psi

**Brush/Roller:** For touch-up only



## RECOMMENDED SYSTEMS

### FERROUS METAL: (bare or painted)

(mild to moderate environments)

- 1 coat Steeltech® Universal Primer S4751 or S4752 at 3.0 -4.0 mils DFT

(and)

- 1 or 2 coats Techgard Maintenance Gloss Enamel S4500 series

or

- 1 or 2 coats Palgard® Epoxy S3400 series at 1.5 - 2.0 mils DFT/coat

### FERROUS METAL: (bare or painted)

(moderate to severe environments)

- 1 coat Steeltech® Universal Primer S4751 or S4752 at 3.0 -4.0 mils DFT

(and)

- 1 or 2 coats Techgard Maintenance Gloss Enamel S4500 series or Techgard Quick Dry Enamel S7700 series at 1.5 - 2.0 mils DFT/coat

or

- 1 coat Techgard Hi-Build Epoxy Mastic S5800 series at 5.0 -10.0 mils DFT

For Additional Recommended Coating Systems Contact Your Pratt & Lambert Sales Executive.