

**TRIANGLE INDUSTRIAL****CAL24****PWB145E Red Primer****Caltrans Specification Red Oxide Water Based Latex Primer****Specifications****DESCRIPTION:**

**CAL24** is a high performance, corrosion inhibiting, water based primer formulated for iron, zinc, steel and galvanized metal. **CAL24** uses zinc phosphate in combination with chemical flash rust inhibitors to protect against corrosion. This primer exhibits excellent adhesion and corrosion resistance on properly prepared surfaces. **CAL24** can be applied in-field or as a shop primer.

**CAL24** is part of a two part Caltrans priming system. **CAL24** is the final primer coat and is applied over the contrast primer coat **CAL25**.

**USE:**

**CAL24** is recommended for iron, steel or galvanized. Uses include:

- exterior structures, ferrous and nonferrous
- bridges
- power line towers
- microwave towers
- metal buildings
- structural steel components
- large fabricated structures

**ADVANTAGES:**

- Long term corrosion protection
- Excellent adhesion to properly prepared iron and steel substrates
- Very low VOC
- Contains no lead or chromate
- Low toxicity
- Water cleanup

**LIMITATIONS:**

- Not recommended for exposure to aggressive chemicals
- Not for use in submersion applications
- Must be topcoated and protected from UV exposure
- Not recommended for application below 50° F or above 100° F or within 5° F of the dew point
- Maximum RH at worksite: 75%

**Properties**

**VOC:** [as packaged] ..... 30 g/l - (0.25 lbs/gal)

**APPEARANCE:** [Gloss at 60°]

Flat ..... 5 – 10

**WEIGHT PER GALLON:** ..... 11.6 lbs

**FLASH POINT:** [setaflash] ..... >200° F

**PACKAGE VISCOSITY:** ..... 82 – 95 KU

**SOLIDS:**

By Weight ..... 58 ± 2 %

By Volume ..... 46 ± 2 %

**COVERAGE:**

Theoretical at 1 mil DFT ..... 738 sq ft/gal

Theoretical at 4 mils DFT ..... 185 sq ft/gal

Recommended DFT ..... 4 mils

**DRY SCHEDULE:** [at 50% RH and 4 mils DFT]

	65° F	77° F	90° F
<b>Dry to Touch</b>	N/A	60 mins	N/A
<b>Recoat</b>	N/A	4 hrs	N/A
<b>Dry to Handle</b>	N/A	4 hrs	N/A
<b>Full Cure</b>	N/A	7 days	N/A
<b>Critical Recoat Window:</b> N/A			

**COLOR AVAILABILITY:**

**CAL24** is stocked in red iron oxide. **PWB145E** must be certified by Caltrans prior to use. Non-stock products require a minimum 4 weeks manufacturing time prior to shipping.

**ORDER NUMBER AND COLOR:**

**CAL24** ..... Red

**PACKAGING:**

Four 1 gallon cans per case

One 5 gallon plastic pail

# CAL24

## PWB145E Red Primer

### Caltrans Specification Red Oxide Water Based Latex Primer

#### Application Data

##### MATERIAL SURFACE PREPARATION:

All surfaces must be clean, dry, and free of contaminants. All dirt, grease, rust, mill scale, or loose chalky paint must be removed in conformance with the provisions in section 59-2, "Painting Structural Steel", or Section 59-3, "Painting Galvanized Surfaces" of the State of California Department of Transportation Standard Specifications unless otherwise specified in the contract special provisions.

The retrieval and analysis of soluble salts on substrates shall be conducted in accordance with "SSPC: The Society for Protective Coatings," rule. The substrate must be cleaned so that the maximum level of soluble salts does not exceed 10 micrograms per square centimeter. Areas should be tested at the rate of 3 tests for the first 1000 square feet prepared per day, and one test for each additional 1000 square feet or portion thereof, at randomly selected locations.

When less than 1000 square feet of surface area is prepared in a shift, at least 2 tests should be performed. If levels of soluble salts exceed the maximum, the entire area represented by the test should be cleaned again and tested until soluble salt levels conform to this requirement.

**Unpainted new structural steel:** Blast clean near white with appropriate abrasive media. All surfaces must be clean, dry, and free of contaminants. Apply appropriate primer to the recommended dry film thickness.

- SSPC-SP1S
- SSPC-SP10

**Previously painted structural steel:** Steam clean or power wash to remove all dirt, grease, contaminants, and gloss from existing paint. Spot clean rusty areas to remove all rust and mill scale.

- SSPC-SP1
- SSPC-SP2
- SSPC-SP3
- SSPC-SP6
- SSPC-SP11

**Galvanized steel:** Steam clean or power wash to remove all dirt, grease, and contaminants. Spot clean to remove rust and mill scale. Roughen surface by whip blasting or light sanding. Do not remove intact galvanizing.

- SSPC-SP1
- SSPC-SP2
- SSPC-SP3
- SSPC-SP7
- SSPC-SP11

Note: Blast cleaned surfaces must be primed the same day blast cleaning is done.

##### THINNING:

No thinning of paint will be allowed unless otherwise provided in the specifications or permitted by the engineer.

##### TEMPERATURE:

50° F minimum, 100° F maximum, (air, surface, and material). Surface temperature must be at least 5° F above the dew point.

##### RELATIVE HUMIDITY:

75% maximum at the site of the work. Paint should not be applied when the ambient or surface temperature is above 100° F or below 50° F.

##### APPLICATION METHODS:

Use mechanical mixtures; do not shake. Avoid incorporating air into the paint. **CAL24** can be applied by HVLP, brush, roller, or mitt. **Airless spray is not permitted.**

##### HVLP:

Fluid Tip: ..... .040– 0.55"  
 Fluid Pressure ..... 10 to 15 psi  
 Air Cap Pressure ..... 60 psi

#### Health & Safety

##### CAUTION:

LIQUID CONTACT WITH EYE AND SKIN CAUSES IRRITATION. DO NOT INGEST. Contains petroleum distillates. Avoid contact with eyes and skin. Wash hands thoroughly after using and before eating and smoking. If spillage has occurred, absorb and dispose of according to local regulations.

##### FIRST AID:

Should eye contact occur, flush with plenty of water for at least 15 minutes and get medical attention if vision is disturbed. For skin wash thoroughly with soap and water. If swallowed get medical attention immediately. DO NOT induce vomiting.

**THIS PRODUCT IS FOR  
 PROFESSIONAL USE ONLY.  
 KEEP THIS PRODUCT OUT OF THE  
 REACH OF CHILDREN.**

#### Shipping & Handling

##### SHIPPING DESCRIPTION: [CFR 49]

Domestic Ground/Air/Vessel: ..... Not regulated

##### IMDG PACKAGING & STOWAGE: ..... Not regulated

##### UNIFORM FIRE CODE: [CFR 29] ..... CLASS III-B

##### STORAGE TEMPERATURE: ..... 100° F max

##### SHELF LIFE: ..... 1 year minimum\*

\*When stored unopened, at 40° - 100° F

##### HMIS RATINGS: ..... H - 1; F - 1; R - 0; PP - B

**WARRANTY:** The statements made herein, on labels, product bulletins, or by any of Triangle Coatings', Inc. employees or agents concerning this product are given for general information only. Due to variables beyond Triangle's control in application, surface preparation, surface temperature, humidity and other variable factors Triangle assumes no liability for any claim that may arise out of the use of its products and disclaims any warranty expressed or implied relating to the storage, application, thinning, merchantability, Buyer's assumption of performance, and the fitness for a particular purpose. Receipt of products from Triangle or its agents constitutes acceptance of the terms of this warranty. In the event that Triangle finds that the product delivered is not of Triangle's standard quality, Triangle will at its sole discretion, either replace the product or refund the purchase price. Triangle's choice of one of these remedies shall be the Buyer's sole remedy. Triangle will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Triangle will deliver products at agreed times insofar as it is reasonably able to do so, but it will not be liable for failure to deliver on time when the failure is beyond its reasonable control.