



# General Industrial Coatings

CC-A29

## KEM AQUA® 50P Water Reducible Primer

Gray.....E61A580    Black .....E61B581    Red Oxide.....E61R583  
White .....E61W582    Custom Blend Series ..... E61WX

### DESCRIPTION

**KEM AQUA® 50P Water Reducible Primer** is a water reducible acrylic latex type primer designed for the general metal finishing markets.

#### Advantages:

- \*Reduce and cleanup with water
- \*Formulated to meet < 2.1 lbs./gal. (< 250 g/L) VOC, less exempts as packaged.
- Excellent adhesion to a wide range of structural foam plastics
- Air dry or force dry
- Single component, no catalyzation
- Provides corrosion resistance to the system
- Compatible topcoats include:
  - Kem Aqua 8530
  - Kem Aqua 600T W/R Enamel
  - Polane® 700T W/R Enamel

\*To ensure optimal coating performance and stability, it is recommended to use deionized water for reduction.

\*VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at [www.PaintDocs.Com](http://www.PaintDocs.Com).

### CHARACTERISTICS

**60° Gloss:** 5-15

**Volume Solids:** 34 ± 2 %  
Varies by color

**Viscosity:** 78-88 Krebs Units

**Recommended Film Thickness:**  
Mils Wet 3.7-4.4  
Mils Dry 1.25-1.50

**Spreading Rate** (no application loss):  
340-460 ft.<sup>2</sup>/gal. at 1.25-1.50 mils DFT

**pH:** 8.7-9.2

**Cure:**  
Air Dry or Force Dry 15-30 mins. at 140-180° F

**Note:** Good air movement and humidity control are necessary for proper drying of water reducible coatings.

**Drying:** 1.25 mils at 77° F, 50% RH  
To Touch 15 minutes  
To Handle 30 minutes  
To Recoat 30-45 minutes  
Total (Full Properties) 7-10 days

**Flash Point:** 499° F  
(Pensky Martens Closed Cup)

**Air Quality Data:**  
Non-Photochemically Reactive  
Volatile Organic Compounds (\*VOC), Less Exempts as packaged < 2.1 lb/gal, < 250 g/L  
Volatile Hazardous Air Pollutants (VHAPS) as packaged No reportable VHAPS

**Recommended Storage:** Inside, sealed container, 40-95° F, **Protect from freezing.**

**Package Life:** 1 year, unopened

### SPECIFICATIONS

**General:** All substrates should be free of mold release, oil, grease, dirt, fingerprints, drawing compounds, surface passivation treatments and any other contaminants to ensure optimum adhesion and coating performance. Consult Metal Preparation brochure CC-T1 for additional details.

**Aluminum:** If untreated, prime with Kem Aqua Wash Primer, E61G522.

**Galvanized Steel:** If untreated, prime with Kem Aqua Wash Primer, E61G522.

**Iron or Steel:** Remove rust, mill scale, and oxidation products. For best results, treat the surface with a proprietary surface chemical treatment of zinc or iron phosphate to improve corrosion protection and adhesion.

**Testing:** The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

## APPLICATION

### Typical Setups

**Reduction:** To ensure optimal coating performance and stability, it is recommended to use deionized water for reduction. Do not over reduce. Water reducible coatings spray easier at high viscosity than solvent reducible coatings.

**May be applied by:** Conventional Spray  
Airless Spray  
Air Assisted Airless Spray  
Electrostatic Spray  
HVLP Spray

### **Conventional Spray:**

Air Pressure	45-55 PSI
Fluid Pressure	10-15 PSI
Tip	0.055 in.
Reduction Rate	10% (vol.)

### **Airless Spray:**

Pressure	1,500-2,100 PSI
Tip	0.011-0.013 in.
Reducer	None needed

### **Air Assisted Airless Spray:**

Assist Air Pressure	25-30 PSI
Fluid Pressure	1,200-1,800 PSI
Tip	0.011-0.013 in.
Reducer	None needed

### **Electrostatic Spray:**

Air Pressure	55-65 PSI
Tip	0.055 in.
Reduction Rate	10% (vol.)

### **HVLP Spray:**

Air Pressure At Cap	7-10 PSI
Fluid Pressure	1015 PSI
Tip	0.055 in.
Reduction Rate	10% (vol.)

Equipment/application guidelines are only guidelines and individual application & process parameters will dictate exact requirements.

**Cleanup:** Use water when coating is still wet. If dried, clean with a 9:1 blend of water and ammonia. Clean spray gun cap with MEK. After cleaning, flush equipment with solvent to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

## ADDITIONAL INFORMATION

1. Protect from freezing, store inside between 40-95° F.
2. Spray a full wet coat at 3.7-4.4 wet mils for good film integrity.
3. High humidity will slow drying.
4. Excessive film thickness may cause mud cracking.
5. To prevent foaming and air entrapment, do not shake or agitate violently.
6. Keep container closed to prevent skinning.
7. Do not use viscosity cups to measure viscosity. Product should be applied at as heavy a viscosity as practical.
8. To ensure performance, minimum dry film thickness is 1.25 mils.
9. Do not topcoat with alkyd type coatings.
10. For Interior Service Environment Only for systems involving Kem Aqua 600T or Polane® 700T.
11. Compatible with Kem Aqua Colorants.

### **Performance Tests**

Substrate:	Untreated Q-Steel®
Primer:	1.5 mils DFT

Salt Spray Test (ASTM B117)	72 hours no blisters
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## CAUTIONS

### **FOR INDUSTRIAL SHOP APPLICATION ONLY**

**Thoroughly review the product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.**

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or [www.PaintDocs.Com](http://www.PaintDocs.Com).

Please direct any questions or comments to your local Sherwin-Williams facility.

### **Note:**

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