

General Industrial Coatings

CC-A22

Kem Aqua[®] 70P Water Reducible Metal Primer

Black......E61B571 Gray.....E61A570

Red Oxide......E61R572 Custom Blend Series E61SX

DESCRIPTION

Kem Agua[®] 70P Water Reducible Metal Primers are fast drving, alkvd type primers for general industrial use on steel either as a single shop coat or as the primer for Kem Aqua 8710 Water Reducible Enamels and Kem Aqua 400 Waterborne Enamels. They offer VOC* of less than 2.8 lbs/gal, good corrosion resistance and no flash point.

Advantages:

- VOC as packaged <2.8 lb/gal, 336 g/L
- · Fast air drying; process efficient
- Offers good corrosion resistance
- Offers good adhesion to untreated clean metal, both cold and hot rolled steel
- Reduces with water** considerable cost savings and improved working conditions
- No critical recoat time when topcoated with Kem Aqua 8710 Water Reducible Enamels
- · Application by various spray methods
- Complete water systems with Kem Aqua 8710 Water Reducible Enamel and Kem Aqua 400 Waterborne Enamel
- May be topcoated with solvent-based air drying enamels after 24-48 hours air dry
- Complies with 2.8 VOC solvent emissions.
- Formulated to be HAPS free.
- Free of chromate hazards.

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

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

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.PaintDocs.Com.

CHARACTERISTICS

SPECIFICATIONS Gloss: Flat General: All substrates should be free of mold release, oil, grease, dirt, fingerprints, Volume Solids: 35 ± 2 % drawing compounds, surface passivation Varies by color treatments and any other contaminants to ensure optimum adhesion and coating Viscosity (at 77° F): performance. Consult Metal Preparation As Packaged: 35-50 secs., #5 Zahn Cup brochure CC-T1 for additional details. 80-90 Krebs Units Reduced 7% With Water: Aluminum: If untreated, prime with 25-35 secs., #3 Zahn Cup Industrial Wash Primer, P60G2, or Kem Aqua Wash Primer, E61G522. **Recommended Film Thickness:** 2.9-3.7 Mils Wet Galvanized Steel: If untreated, prime with Mils Dry 1.0 - 1.3Industrial Wash Primer, P60G2, or Kem Agua Wash Primer, E61G522. Spreading Rate (no application loss): 410-595 ft.²/gal. at 1.0-1.3 mils DFT Steel or Iron: Remove rust, mill scale, and oxidation products. For best results, treat the Cure: surface with a proprietary surface chemical Air Dry or treatment of zinc or iron phosphate to 15-30 mins. @ 150-180° F Force Dry improve corrosion protection. Drying: 1.0 mil at 77° F, 50% RH To Touch 30-45 minutes Tack Free 45-60 minutes 60-90 minutes To Handle To Recoat w/ Itself 30-60 minutes Good air movement and humidity control are necessary for proper drying of water reducible coatings. Flash Point (Pensky Martens Closed Cup): None 8.5-8.9 pH: Air Quality Data: • Non-Photochemically Reactive • Volatile Organic Compounds (VOC) Theoretical, as packaged, less water and exempt solvents < 2.80 lb/gal, < 336 g/L Volatile Hazardous Air Pollutants (VHAPS), as packaged No Reportable VHAPS Recommended Storage: Inside, sealed container, 35-95° F, freeze hazard. Package Life: 1 year, unopened

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

Water reducible enamels must be applied at higher viscosities than solvent-based enamels. They apply and atomize easier at higher viscosities. Do not over reduce.

Reduction: To ensure optimal coating performance and stability it is recommended to use deionized water for reduction.

May be applied by:	Conventional Spray
	Airless Spray
Air	Assisted Airless Spray
	Dip
	HVLP Spray

Conventional Spray:

Air Pressure	50 psi
Fluid Pressure	8-12 psi
Tip	0.055-0.070 in.
Reducer	Water
Reduction	As needed, up to 10%

Airless Spray:

Fluid Pressure	1,400-2,500 psi
Tip	0.011-0.013 in.
Reducer	Water
Reduction	As needed, up to 10%

Air Assisted Airless Spray:

Air Assist Pressure	e 20-30 psi
Fluid Pressure	600-900 psi
Тір	0.011-0.013 in.
Reducer	Water
Reduction	As needed, up to 10%

Dip:

Reducer Water

Reduction 25-35 seconds, #3 Zahn Cup • A 3:1 blend of water and R6K25 (Butyl

- A 3.1 blend of water and RoR25 (Butyl Cellosolve[®]) is necessary for tank maintenance.
- Monitor and adjust tanks for viscosity, (pH = 8.5-8.9) and stability.
- Excessive agitation or turbulence during part immersion or withdrawal may cause foaming.

HVLP Spray:

Air Pressure	Max 10 psi at cap
Fluid Pressure	6-8 psi
Тір	0.055-0.070 in.
Reducer	Water
Reduction	As needed, up to 10%

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

Cleanup: Clean tools/equipment immediately after use with R6K25 (Butyl Cellosolve) or MEK.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

1. Drying time is dependent on film thickness

Follow recommended film thickness for

· Do not spray at air temperatures below

Heavier film thickness causes slow

· Higher relative humidity will increase

2. Topcoat with Kem Aqua 8710 Water

3. May be top coated with solvent-based alkyd enamels after 24-48 hours air dry.

4. Liquid water reducible coatings may

cause corrosion/rusting in the presence of

steel. Tanks, containers, piping, and

application equipment should be lined,

alkyds, such as Kem Aqua 70P, is a rise in viscosity (up to 25%) over time.

• If this occurs, the product can be

detrimental effects on performance.

6. Compatible with Opticolor[®] Express &

Phoenix[®] colorants. Maximum colorant

tint load is 2 ounces per gallon in the

Cross Hatch Adhesion Pass 4B Minimum

*Performance test results may vary

depending on dry film thickness,

substrate tested and post-cure duration.

Clean cold rolled steel

1.0 mil DFT

Pass

Air dry, 14 days

Passes 240 hours

Passes 4 Cycles

Representative for assistance.

• If viscosity increases in excess of 25%,

reduced with water to the desired

application viscosity without any

contact your local Sherwin-Williams

5. A common property of water reducible

stainless steel, or plastic.

Reducible Enamel or other water

reducible air drying alkyd enamels. Do not topcoat with latex coatings like Kem Aqua

and atmospheric conditions.

optimum performance.

50° F.

drying.

dry time.

8530.

E61W573.

Salt Spray Test

Freeze/Thaw Cycles

Conical Mandrel, 1/8"

Substrate:

Primer:

Cure:

Performance Tests*

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 <u>www.PaintDocs.Com</u>.

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

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