SHERWIN WILLIAMS.

KEM AQUA® 50P Water Reducible Primer

Gray	E61A580	White	E61W582
Black	E61B581	Red Oxide	E61R583

DESCRIPTION

KEM AQUA® 50P Water Reducible Primers are low VOC*, water reducible acrylic latex type primers designed for the general metal finishing markets.

Advantages:

- Water reducible
- Low odor - improves working conditions
- No reportable HAPS
- Reduced fire hazards - possible lower insurance costs
- Low VOC*
- Volatile Organic Emissions less than 1.0 lb/gal
- Use water for reduction and cleanup of spray equipment
- 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
- Free of lead and chromate hazards
- Compatible topcoats include:
  Kem Aqua Gloss Enamel
  Kem Aqua 600T W/R Enamel
  Polane 700T W/R Enamel
  Polane Polyurethane Enamels

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

CHARACTERISTICS

Gloss: 5-15 units
Volume Solids: 34 ± 2%
Viscosity:
78-88 Krebs Units
Recommended film thickness:
Mils Wet 3.7-4.4
Mils Dry 1.25-1.5
Spreading Rate (no application loss)
342-462 sq ft/gal@ 1.25-1.5 mils DFT
Drying (1.25 mils dft, 77°F, 50% RH):
To Touch: 15 minutes
To Handle: 30 minutes
To Recoat: 30-45 minutes
Force Dry: 15-30 minutes at 140-180°F
Good air movement and humidity control are necessary for proper drying of water reducible coatings.
Flash Point: None, Seta Flash Closed Cup
Package Life: 1 year, unopened
Storage: Store inside - protect from freezing
pH: 8.7-9.2

Air Quality Data:
Non-photochemically reactive
Volatile Organic Compounds (VOC) as packaged, maximum
2.1 lb/gal, 252 g/L
Volatile Organic Emissions as packaged, maximum
1.0 lb/gal, 120 g/L
No reportable HAPS

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

SPECIFICATIONS

General: Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties. Consult Metal Preparation Brochure CC-T1 for additional details.

Aluminum: If untreated, prime with Kem Aqua® Wash Primer, E61G520.

Galvanized Steel: If untreated, prime with Kem Aqua® Wash Primer, E61G520.

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.

Testing: Due to the wide variety of substrates, surface preparation methods, and application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.

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APPLICATION

Typical Setup

Do not over reduce. Water reducible coatings spray easier at high viscosity than solvent reducible coatings.

Conventional Spray:
Air Pressure ..... 45-55 psi
Fluid Pressure ..... 10-15 psi
Cap/Tip 704/FF
Reducer ..... Water
Reduction Rate 10%
Airless Spray:
Pressure ..... 1500-2100 psi
Tip 411
Reducer ..... none needed
Air Assisted Airless:
Air Pressure ..... 30 psi
Fluid Pressure ..... 1200-1800 psi
Cap/Tip 222-608/411
Reducer ..... none needed
Electrostatic Spray:
Air Pressure 55-65
Reducer ..... Water
Reduction Rate 10%
HVLP: (DeVilbiss Maximum Performer)
Atomizing Air Pressure at the Cap 7-10 psi
Fluid Pressure ..... 10-15 psi
Cap/Tip 46MP/FF
Reducer ..... Water
Reduction Rate 10%

Cleanup:
Use water when 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.

SPECIFICATIONS

Product Limitations:
- Protect from freezing, store inside between 40-95°F.
- Spray a wet film for good film integrity
- High humidity will slow drying.
- Excessive film thickness may cause mudcracking.
- To prevent foaming and air entrapment, do not shake or agitate violently.
- Keep container closed to prevent skinning.
- Do not use viscosity cups to measure viscosity. Product should be applied at as heavy a viscosity as practical.
- To ensure performance, minimum dry film thickness is 1.25 mils.
- Do not topcoat with alkyd type coatings.
- Interior Service Environments Only for systems involving Polane 700T, Kem Aqua 600T and Polane Polyurethane Enamel topcoats.

Performance Tests
Substrate: Q-Steel @ 1.5 mils dft
Salt Spray Test
ASTM B117 ..... Pass 72 hours

CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product.
A Material Safety Data Sheet is available from your local Sherwin-Williams facility. Please direct any questions or comments to your local Sherwin-Williams facility.

LABEL CAUTIONS
SEE CONTENTS STATEMENT ON LABEL.
VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.
FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.
SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.
DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.
Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.
SEE MATERIAL SAFETY DATA SHEET. 20225-051905.

Note: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.