



CC-E21-A

KEM AQUA® 400 Waterborne Enamel Kankote™ Waste Equipment Colors

Black	F75BC500	Container Green	F75GC500	Packer Brown	F75NC500
White	F75WC501	Forest Green	F75GC501	Container Brown	F75NC501
Container Gray	F75AC502	WM Green	F75GC502	Container Red	F75RC502
Container Orange	F75EC503	Meridian Green	F75GC503	Federal Yellow	F75YC501
Packer Beige	F75HC501	BFI Blue	F75LC500	Clear	F75VC500

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>KEM AQUA® 400 Waterborne Enamel - KANKOTE™ Waste Equipment Colors are a high quality water reducible alkyd enamel. They offer very good color and gloss retention with sharp gloss and excellent corrosion resistance making it an ideal coating for the Waste Equipment market.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Low VOC* - less than 3.0 lb/gallon at application • Low volatile organic emissions - under 1.3 lb/gallon • Very good color and gloss retention • Very good one coat protection - comparable to high quality solvent based alkyds • Excellent adhesion and early moisture resistance • Sharp high gloss • Low odor improved working conditions • Reduced with water means considerable cost savings in solvents • Application by conventional, airless, air assisted airless, HVLP and electrostatic handgun spray methods and by dipping • Custom colors are available with the Kem-Aqua™ Colorants system • Use water to cleanup spray guns and equipment • Good flexibility and mar resistance • Dries hard overnight • High DOI • Free of lead and chromate hazards <p>*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p>Gloss: Full (80+) at 1.25 mils DFT</p> <p>Volume Solids: 25-30% varies by color</p> <p>Viscosity: 105-115 Krebs Units - Stormer</p> <p>Recommended film thickness: Mils Wet 4.0 - 5.0 Mils Dry 1.0 - 1.25</p> <p>Spreading Rate (no application loss): 336-480 sq ft/gal at 1-1.25 mils DFT - varies by color</p> <p>Drying (1.0 mil dft, 77°F (25°C), 50% RH): To Touch: 35-45 minutes Tack Free: 90-110 minutes To Handle: 2 hours To Recoat: 30 minutes Force Dry: 15-20 minutes at 150-180°F (66-82°C)</p> <p>Good air movement and humidity control are necessary for proper drying of water reducible coatings.</p> <p>Flash Point: None - Seta Flash Closed Cup</p> <p>Package Life: 1 years, unopened</p> <p>Storage: inside storage, protect from freezing</p> <p>pH: 8.3-8.7</p> <p>Freeze Thaw: Passes 4 cycles</p> <p>Air Quality Data: Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum <3.0 lb/gal, 336 g/L reduced 10% with water <3.0 lb/gal, 336 g/L</p> <p>Volatile Organic Emissions as packaged, maximum 1.3 lb/gal, 156 g/L reduced 10% with water 1.17 lb/gal, 140 g/L</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</p>	<p>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.</p> <p>Aluminum (untreated): Prime with Kem Aqua® Wash Primer, E61G520.</p> <p>Galvanized Steel (untreated): Prime with Kem Aqua® Wash Primer, E61G520.</p> <p>Steel or Iron: 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/or the application of Kem Aqua® 70P Water Reducible Metal Primer at 1.2 mil DFT. Kem-Flash® 500 Primer may be used where a solvent based 3.5 VOC primer is desired.</p> <p>Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p>

APPLICATION

Typical Setups

Reduction: Reduce with water as needed up to 10%. Do not over reduce.

Conventional Spray:

Air Pressure 45-55 psi
Fluid Pressure 10 psi
Cap/Tip 797/FF

Airless Spray:

Pressure 1800-2500 psi
Tip 411-413

Air Assisted Airless:

Air Pressure 10-30 psi
Fluid Pressure 2100-2400 psi
Tip 411-.413

Electrostatic Spray:

Can be applied by electrostatic, but equipment must be isolated. Contact your equipment supplier or Sherwin-Williams Representative for proper set up.

HVLP:

Gun Graco Delta Spray 239-562
Atomizing Air Pressure at the Cap 8-10 psi
Fluid Pressure 15 psi
Cap/Tip 192-322/.070

Cleanup:

Clean tools/equipment immediately after use with water when paint is still wet. When dry, use Butyl Cellosolve or MIBK. Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- Multiple passes to obtain film build are preferred to a single heavy pass.
- Higher relative humidity will increase drying time.
- Do not spray at temperatures below 45°F (7°C).
- Indoor storage at 35-95°F (1.7-35°C) is recommended. Protect from freezing.
- Tanks, containers, piping and application equipment should be lined or stainless steel or plastic.
- For longer term exterior application, prime with Kem Aqua® 70P.
- Kem Aqua™ Colorants may be added up to 8 oz./gallon.
- For colder or humid climate up to 10% acetone, R6K9, may be added to improve dry time and application.
- For hot, humid conditions use a 50/50 blend of butylcarbitol, R6K28, and butylcellusolve, R6K25, up to 8% to improve application properties.

Performance Tests

1.2 mils dry film on untreated cold rolled steel (Q Panel) and air dried for 14 days.

Salt Spray Test

ASTM B117 200 hours
no face rust and 1/8" creepage maximum

Humidity

ASTM D2247, 100°F (38°F), 100% RH, 150 hours passes - no blisters

Pencil Hardness

ASTM 3363 HB

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.

Contains 2-Butoxyethanol which may cause blood damage.

WARNING: This product contains chemicals known to the State of California to cause cancer. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.
SEE MATERIAL SAFETY DATA SHEET.
20035-112001.

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.