CC-A31

KEM-FLASH® 500 Low HAPS Primer

Light Gray E61A712

DESCRIPTION

KEM-FLASH® 500 Low HAPS Primer is a high quality, fast air drying, VOC compliant alkyd primer with very low HAPS content. It satisfies the performance specification requirements of the off road equipment and general metal markets.

Advantages:

- Meets EPA solvent regulations of 3.37 lbs./gal. Volatile organic compounds (VOC).
- Low HAPS, less than 0.02 lbs/gal of solids
- Excellent corrosion resistance
- Fast drying. Can be topcoated after 30 minutes.
- High solids, 54% volume solids means more build with less passes.
- May be applied by airless or conventional spray without reduction or heat.
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.
- Ideal primer for farm and construction equipment, machinery, railroad cars, structural steel, and fabricated metal parts requiring excellent durability and rust protection.
- Can be reduced with exempt solvents, such as acetone to improve application.
- Compatible with a wide range of topcoats,including:
  - Kem Fast Dry H.S.
  - Kem Lustral® Enamel
  - Opex® Production Lacquers
  - Fast Production Enamel
  - Quick Dry Enamel
  - Quick Dry 350
  - High Solids Acrylic Enamel
  - Kem Acryl HS 100 Enamel

CHARACTERISTICS

Gloss: Flat - 5-15 units
Volume Solids: 54 ± 2%
may vary by color
Viscosity: 14-32 secs., #3 Zahn Cup
40-70 secs., #4 Ford Cup
Recommended Film Thickness:
Mils Wet 2.8 - 3.5
Mils Dry 1.5 - 1.8
Spreading Rate (no application loss):
463-599 sq ft/gal @ 1.5 - 1.8 mils DFT
Drying (1.5 mil DFT, 77°F, 50% RH):
To Touch: 15-30 minutes
Tack Free: 30-90 minutes
To Recoat: 30 minutes
Force Dry: 10-30 minutes at 140 to 180°F
Flash Point: 50°F Pensky-Martens Closed Cup
Package Life: 24 months, unopened

Air Quality Data:
Photochemically reactive. Volatile Organic Compounds (VOC) as packaged, maximum 3.25 lb./gal, 390 g/L.

Maximum Volatile HAPS pounds per gallon of solids as packaged, 0.03

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 Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G520.

Galvanized Steel: If untreated, prime with Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G520.

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.

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.

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APPLICATION

Typical Setups

Reduction: For 3.5 lb/gal VOC, reduce up to 3.5% maximum with Butyl Acetate, for lower viscosity and easier application. Heat up to 120°F may also be used for better application.

Conventional Spray:
Air Pressure ..... 50 - 60 psi
Fluid Pressure ..... 10 - 15 psi
Fluid Tip ..... .055 - .070

Airless Spray:
Pressure ..... 2200 - 2600 psi
Tip .....013 - .015"

Air Assisted Airless:
Air Assist Pressure ..... 20 - 30 psi
Fluid Pressure ..... 1800-2400 psi
Fluid Tip .....013 - .015"

Electrostatic Spray:
Voltage ..... 60-85 KV
Fluid Tip ..... .055 - .070
Air Pressure ..... 50 - 60 psi

HVLP:
Air Pressure ... 10 psi maximum at cap
Fluid Pressure ..... 8 - 10 psi
Fluid Tip ..... .055 - .070

Clean Up:
Clean tools/equipment immediately after use with Butyl Acetate. Follow manufacturer's safety recommendations when using any solvent.

Performance Tests
Substrate: Cleaned steel, primer applied at 1.5 mils DFT.

Salt Spray Test, ASTM B117.....500 hours, no face rust and 1/8"creepage maximum

Humidity, ASTM D2247
100°F (38°C), 100% RH..... 500 hours, passes, no blisters

45°S Florida Exposure.....1 year

SPECIFICATIONS

Product Limitations :
- For good corrosion resistance, a minimum of 1.5 mils dry film is required.
- Apply as a full wet coat, as dry spray gives poor enamel holdout and rough appearance.
- Do not topcoat with polyurethane enamels, catalyzed epoxies, high PVC flat wall paints, or latex coatings.
- On sand blasted surfaces, apply sufficient film thickness to protect the blast profile. This is typically 1 mil more than the blast profile. Multiple coats may be required.
- Because of its fast drying, this product is not recommended for brush application.
- Users should test for critical recoat and system adhesion when topcoating with products containing high strength solvents.
- Coating thickness will increase rapidly during application because of its higher solids. Heavy films will dry slower.

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.

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.
Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
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. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). 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: If INHALED: If affected, remove from exposure. Restore breathing, Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. 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.
Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure.
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. 21574-051905.