



**SHERWIN
WILLIAMS.**

Chemical Coatings

CC-A28

KEM-FLASH® Ultra-Bond® Primer

Gray E61A705
Red Oxide E61R706

Black E61B707
White E61W708

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p>KEM-FLASH® Ultra-Bond® Primer, is a high solids low VOC* one-package epoxy ester primer offering excellent performance properties and topcoatability with a wide range of topcoats including two component polyurethanes, alkyd enamels, and acrylic enamels. It is an ideal primer for the off road markets like construction machinery and farm equipment.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • VOC of 3.37 lb/gal* • Single component - no catalyst • Topcoatable with polyurethanes, alkyd enamels and acrylic enamels • No critical recoat with most topcoats • Fast drying • Excellent holdout of topcoat • Excellent corrosion resistance • High solids for quick film build with minimum spray passes • May be applied using a wide array of application equipment • 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: <30 units @ 60°</p> <p>Volume Solids: 53 ± 1% may vary by color</p> <p>Viscosity: 40-60 seconds #4 Ford Cup 45-65 seconds #2 Zahn Cup (Gardner Signature) 18-30 seconds #3 Zahn Cup (Gardner Signature)</p> <p>Recommended film thickness: Mils Wet 2.8 - 3.8 Mils Dry 1.5 - 2.0</p> <p>Spreading Rate (no application loss) @ 1.5-2.0 mils dft: 425-566 sq ft/gal</p> <p>Drying (77°F, 50% RH): To Touch: 15-30 minutes To Handle: 60 minutes Tack Free: 45-60 minutes To Topcoat: after 15 minutes</p> <p>Flash Point: 60°F Seta Flash Package Life: 1 year, unopened</p> <p>Air Quality Data: Photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 3.37 lb/gal, 405 g/L reduced 3.5%, maximum 3.5 lb/gal, 420 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: Prime with Industrial Wash Primer, P60G2, then prime with Kem-Flash Ultra-Bond Primer.</p> <p>Galvanized Steel: Prime with Industrial Wash Primer, P60G2, then prime with Kem-Flash Ultra-Bond Primer.</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. For hot rolled steel, sandblasting or power tool cleaning is recommended to remove mill scale, rust, etc.</p> <p>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.</p> <p>Topcoats: A unique quality of Kem-Flash Ultra-Bond Primer is its versatility to be topcoated with a wide range of products, including Polane® Polyurethane Enamels, Kem® Fast Dry High Solids Enamel, Quick Dry 350 and Kem Aqua® 280. Contact your local Sherwin-Williams representative for additional topcoat recommendations.</p> <p>Note: Latex and Nitrocellulose Lacquers are not recommended over Kem-Flash Ultra-Bond Primer. Other enamels should be tested for performance before use.</p>

<p align="center"><u>APPLICATION</u></p>	<p align="center"><u>SPECIFICATIONS</u></p>	<p align="center"><u>CAUTIONS</u></p>
<p align="center">Typical Setup</p> <p>Reduction: For 3.5 lb/gal VOC, reduce up to 3.5% maximum with Butyl Acetate, MAK, or MIBK for lower viscosity and easier application. Heat up to 120°F may also be used for better application.</p> <p>Conventional Spray: Air Pressure 40-60 psi Fluid Pressure 10-15 psi Cap 63PB (Binks), 765/797 (DeVilbiss) Tip 66 (Binks), FF (DeVilbiss)</p> <p>Airless Spray: Pressure 2200-2600 psi Tip013-.015"</p> <p>Air Assisted Airless: Air Pressure 30/10 psi Fluid Pressure 2000-2600 psi Cap/Tip . 222-608 (Graco)/.013 - .015"</p> <p>Electrostatic Spray: Reducer for polarity MAK Voltage 60-85 KV</p> <p>HVLP: Air Pressure 50-65psi Fluid Pressure 10-15 psi Cap/Tip 8-9 psi</p> <p>Cleanup: Clean tools/equipment immediately after use with Xylene or Aromatic Naphtha-100 Flash. Follow manufacturer's safety recommendations when using any solvent.</p>	<p>Product Limitations:</p> <ul style="list-style-type: none"> • For good corrosion resistance, apply a minimum of 1.25 mils dry film thickness. 1.5-2.0 mil dft is recommended for optimum corrosion resistance. • Higher film thicknesses may increase dry times and may cause critical re-coat with some topcoats. • To maintain 3.5 VOC, do not reduce more than 3.5%. • On blasted surfaces, apply sufficient dry film thicknesses to fully protect the blast profile. This is typically one mil more than the blast profile. • Users should test for critical re-coat when topcoating. In laboratory testing, critical re-coat times were never evident but some application, cure and film thickness conditions may show evidence of holdout. • For topcoating after more than 4 weeks, exterior exposure of the primer, sand for best adhesion. • Primer DFT above the recommended range will exceed the stated gloss. • Force drying this product will not shorten cure time. The primer's cure and related performance is time dependent. However, a minimum cure temperature of 60° is needed to achieve the listed performance properties in seven days. • For applications requiring a faster drying system and do not involve two component polyurethanes, Kem-Flash 500 Primer should be evaluated. <p>Performance Tests</p> <p>Substrate 24 gauge Bonderite 1000 panels 1.5 @ mils DFT, cured (air dried) 7 days before testing</p> <p>Salt Spray Test ASTM B117 500 hours 1/8" scribe creepage, no face rust</p> <p>Humidity ASTM D2247, 100°F, 100% RH ... 300 hours No blistering or face rust</p> <p>Conical Mandrel ASTM D522-92A passes 1/8" mandrel</p> <p>Impact Resistance, Direct ASTM D2794 20 in lb</p> <p>Impact Resistance, Reverse ASTM D2794 <5 in lb</p>	<p>Thoroughly review product label for safety and cautions prior to using this product.</p> <p>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.</p> <p align="center">LABEL CAUTIONS</p> <p>SEE CONTENTS STATEMENT ON LABEL.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.</p> <p>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.</p> <p>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.</p> <p>WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <p>DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.</p> <p>FOR INDUSTRIAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.</p> <p>21574-100402.</p> <p>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.</p>