

KM Epoxy Primer

Two part water based primer

Description

KM Epoxy Primer is a two component, 1 to 1 ratio, water-based epoxy primer which enhances adhesion to a variety of porous and non-porous substrates. It is non-flammable and has low VOC's.

Uses

Adheres well to most metals, organic polymers, wood and masonry. Enhances adhesion of elastomeric silicone materials. Excellent Alkali Resistance. Contact KM Technical Services for clarification of unusual surfaces or project conditions.

Typical Physical Properties

1. **Weight per Gal (lb)** 11.7, ASTM D2939
2. **Weight Solids (%)** 60% (± 2), ASTM D1644
3. **Volume Solids (%)** 42.5% (± 2), ASTM D2697
4. **Temperature Limit for Normal Service (°F)**
-40-180
5. **VOC (As mixed A+B)(g/l)** <55
6. **Flash Point (°F)** 212, PMCC
7. **Cure Time** 2-3 hours

Codes and Standards

Factory Mutual Approved



Packaging

- 1GA pail (Part A White)
- 1GA pail (Part B Dark Grey)
- 5GA pail (Part A White)
- 5GA pail (Part B Dark Grey)

Application Instructions

Surface Preparation:

All surfaces to receive coating must be clean, dry and free from any foreign matter such as dirt, oils,



grease or other debris that could inhibit the adhesion capabilities of the newly installed products.

Metal surfaces that display rusting or other oxidation, must be prepared with a grinder or wire brush as needed to remove surface contaminants.

Existing roof systems to be visually inspected for conditions that may adversely affect adhesion of performance of newly installed products. Repair any visible deficiencies such as splitting, blistering, and buckling with Acrylicalk Elastomeric sealant and polyester fabric.

Visually inspect all metal and non-metal flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.

Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar based products or Kynar® finishes.

Remove all curing agents and or bond breakers from concrete surfaces prior to coating application.

Mixing Procedure:

Mix each A & B component individually, then combine A & B and mix thoroughly. Power mix for a minimum of 5 minutes with max 375 RPM drill. Mixing is recommended with a Jiffy Mixing Paddle or similar paddle design.

Part A is White. Part B is Black. The combined product is Grey.

The two components are packaged in the correct proportions (1 part by volume of Part A to 1 part by volume of Part B).

Part A is a slurry liquid, with settling properties. Part B is a viscous liquid.

Applications for smoother surface substrates, diluting of the KM Epoxy Primer is acceptable. Dilution is best achieved by taking 5 gal of the Part B adding 64 oz. of potable water and mix until uniform and add 5 gal of Part A until uniform. Finished mixture will be more easily applied by spray application.

Application:

KM Epoxy Primer may be applied by high pressure sprayer, roller, or brush application methods. Use long nap ($3/4$ " to 1") rollers when KM Epoxy Primer is used as block filler for porous concrete. If blowholes form as the primer dries, apply an additional coat. Allow 8 to 10 minutes between passes. Use a $1/4$ " or $3/8$ " nap roller or nylon brush.

Consult KM Technical Services for application rates for specific roof substrates and for job specific application specifications.

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Porous surfaces will require additional primer. Excessive primer will reduce adhesion strength.

Pot life is 2 hours at 75°F. This can be extended to 3 hours by thinning with 5% water to achieve the original consistency. Pot life at 55°F is doubled, however at 100°F it is reduced to 45 minutes or less.

Do not apply if weather conditions are below 50°F, when there is a chance that temperatures could fall below 32°F within a 24 hour period after application, or if rain or dew is likely to occur before curing of product. Cold weather could result in uneven application and improper curing of product.

Drying time is dependent on temperature and humidity.

Do not apply when temperatures exceed 130°F

Do not use on copper or silver.

Surface	Coverage
Smooth Asphalt	$\frac{2}{3}$ -1 gal per square
Smooth Modified	$\frac{2}{3}$ -1 gal per square
Granulated Modified	1-1 $\frac{1}{3}$ gal per square
Concrete	$\frac{1}{2}$ - $\frac{2}{3}$ gal per square
Smooth Single Ply	$\frac{1}{3}$ gal per square

Airless Sprayer (Pump Min. Specification)
1,500-2,000 psi
1 gal per minute
Contractor Gun w/RAC SwitchTip & Guard
.019 to .025 tip size depending upon length of hose & spray pattern developed

Personal Protection

Safety Precautions — This product is designed for professional installation. The use of an appropriate MESA/NIOSH approved respirator and all other PPE is recommended. See SDS for specific requirements.

Installers should read and understand all technical and informational literature on this product, including the Safety Data Sheet, prior to using this product.

Eye Contact — Flush eyes with water while lifting the upper and lower lids for 15 minutes and seek medical advice.

Toxicity — See SDS for complete details.

Waste Disposal — Empty containers must be disposed of in accordance with local, state and federal regulations.

For Professional Use Only — **Keep out of the reach of children.**

This product is not recommended for interior use.

Storage and Cleaning

Product shelf life: 12 months from date of manufacture when properly stored.

Store at temperatures between 45°F and 75°F.

Protect from freezing.

Store 24 hours at room temperature prior to application.

Observe normal safeguards for storing and handling of this product prior to and during application.

Keep containers covered when not in use.

Clean up with water supplemented with soap. MEK is recommended for both cleaning and drying spray equipment in order to avoid corrosion. (Make sure hoses are solvent resistant).

KM Coatings

1719 West Buchanan Street
Phoenix, Arizona 85007

Office: (602) 253-1168

Fax: (602) 258-1887

Toll Free: (800) 982-6899

Refer to SDS for specific data and handling of our products.

All data furnished refers to standard production using manufacturing testing tolerances. The product user, and not KM Coatings, is responsible for determining the suitability and compatibility of our products for the user's intended use.