



Concrete Coatings & Floor systems

APPLICATION BULLETIN Kemiko® Two Component Water Extended Epoxy (SS1600 Series)

Description

Kemiko® Two Component Water Extended Epoxy (Kemiko® SS1600) is a two component water extended epoxy coating that comes in clear and pigmented variations. Product benefits include a long pot life and low odor which is ideal for interior applications that may have limited air flow. Kemiko® SS1600 Clear and pigmented versions can be used as a thin film primer for superior adhesion to properly prepared porous concrete surfaces. Kemiko® SS1600 Clear can also be used as an initial sealer over Stone Tone™ stained concrete.

Applications

Kemiko® SS1600 can be applied to properly prepared cementitious substrates. Typical applications include (as a prime coat) hospital floors, petrochemical and chemical secondary containment, warehouse flooring, showroom floors, and many other surfaces. This product is not intended as a final topcoat for direct UV exposure.

Surface Preparation

Concrete

Surface must be cured, dry and free from stains and laitance. All visible oil, grease or any other contaminants must be removed prior to application of coating. Surface preparation includes using concrete grinding, shot blasting, and acid etching. If acid is used, refer to the manufacturer's instructions and recommendations for neutralization. If using mild mechanical abrasion techniques, use a concrete grinder or shot blasting machine to achieve a surface profile of CSP 3-5. Clean surface and ensure that all dust, debris, and contaminants have been removed. Check concrete preparation by applying water over a small area of the concrete surface (especially in areas that had oil and grease stains). If water beads on the surface, additional surface preparation is needed. If concrete darkens with no water beading on the surface, then the surface is ready to be coated after concrete dries.

Existing Coatings

Surface must be cured, dry and free from stains and laitance. All visible oil, grease or any other contaminants must be removed prior to application of coating. For best adhesion, the existing coating must be scuffed with a nonwoven abrasive pad, floor buffer with abrasive screen, or orbital sander with sandpaper (80-120 grit) to achieve a rough surface profile. Clean area and wipe existing coating with a rag and acetone to ensure that all oil, grease or any other contaminants have been successfully removed. If existing coating is not a Kemiko® product, consult with a Kemiko® representative prior to application.

Warning: Wear a NIOSH approved respirator to control toxin exposure. Scraping, sanding or removing old paint may release toxic lead dust. Exposure may lead to serious illness, such as brain damage, especially in children. Pregnant women should avoid exposure. Clean up carefully with a HEPA vacuum and a wet mop.

Mixing Instructions

Using a mechanical jiffy-type mixer, mix SS1600 Part B at slow speed (500-1000rpm) for 1-2 minutes until a homogenous mixture is obtained. Transfer contents into a separate, suitable container that allows for sufficient mixing without overflowing. Next, pour SS1600 Part A component into the container that has the SS1600 Part B. Ensure that all contents have been transferred. Mix on slow to medium speed (500- 1000rpm) for 1-2 minutes. Avoid fast aggressive mixing as that may entrap air into the system. Scrape sides of container and mix for an additional 1-2 minutes. Ensure all material is thoroughly blended. Allow material to sit for 10 minutes for induction, then add 10% water by volume. Mix again at slow speed (500-1000rpm) for 1-2 minutes to incorporate the water into the mixed epoxy prior to application.



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Mixing Tips

- Do not mix product by hand; only use a mechanical mixer. Hand mixing does not properly incorporate the components.
- For best results, prior to mixing, have material as close as possible to an ambient temperature of 77°F (25°C).

Application Methods

This product can be applied using one of the methods outlined below. Tape off any area that does not require coating. Pour contents into a roller tray to dip and roll the material or pour contents in "ribbons" or "strips" across surface to be coated. Spread material out with a brush or roller to the recommended wet film thickness. Do not thin material.

- **Brush** - Use high quality bristle brush for best film properties
- **Roller** - Use lambswool or similar cover with phenolic core, 1/4" (6.35mm) nap. De-lint roller prior to use
- **Spray** - This material is not intended for spray applications

Environmental Conditions

For best results, apply when surface temperature is between 50°F- 85°F (10°C-29°C) and 5°F (3°C) above dew point. Avoid using in direct sunlight. Do not apply on rainy or foggy days.

Clean Up

Use warm water and mild soap to clean tools.

Storage Conditions

Store between 50°F-100°F (10°C-37.8°C). Keep in a cool, well-ventilated area, away from direct sunlight and heat. Store in a segregated and safe area, avoiding all possible sources of ignition.

Safety

Care should be taken when using this product. During application, use protective eye wear, proper respirator, and protective gloves. Ensure work spaces are well ventilated. Read product label and SDS carefully for more detailed safety information prior to handling or use.

Disclaimer

Information provided in this application bulletin is based on laboratory testing under controlled ambient conditions and is used as a guideline only.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from use of this product.

Contact us for any additional application information.



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