



## Concrete Coatings & Floor systems

## APPLICATION BULLETIN

### Kemiko® Repels™ Silane/Solixane Sealer (K51-1)

#### Description

Kemiko® Repels™ (K51-1) is a 0-VOC, extremely user-friendly, waterborne silane/siloxane emulsion for sealing Kemiko® Stone Tone™ Stained concrete and other cementitious substrates. Kemiko® Repels™ Sealer is a water viscosity, single component product that is formulated to repel water, reduce efflorescence and frost damage, allows substrate to breathe, has very little or no odor, does not contain solvents, and preserves stained concrete color and natural gloss. Kemiko® Repels™ Sealer is resistant to UV and high alkalinity exposure.

#### Applications

Kemiko® Repels™ K51-1 is applied to properly prepared stained and bare concrete, new and existing stucco finishes, fired clay brick, and many other cementitious mortars. Typical applications include commercial and residential driveways, walkways, facades, pool decks, stamped and stained concrete, new architectural poured in place and precast concrete, and many other horizontal and vertical above grade exterior surfaces requiring additional protection. Excellent replacement product for high VOC solvent base water repellents and sealers with excellent wetting properties.

**Not formulated to be applied over previously sealed substrate, non-porous substrate, Kemiko® Dyes or Rembrandt™ Polymer Stain.**

#### 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. Mask all glass and metal surfaces – **THESE SURFACES MUST BE PROTECTED FROM CONTACT WITH THIS PRODUCT.**

#### Existing Coatings

This product is not designed to be applied over existing coatings.

#### 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 Kemiko® Repels™ K51-1 at slow speed (500-1000rpm) for 1-2 minutes until a homogenous mixture is obtained. Scrape sides and bottom of container to ensure that there is no settled material. Mix again at slow speed for an additional 1-2 minutes.

#### 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).



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#### Application Methods

This product can be applied using several different methods outlined below. Tape off any area that does not require a coating. 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** - Commercial conventional air spray or airless spray equipment utilizing spray gun tip size between 0.013" - 0.015". Adjust pressure for proper atomization. Maintain consistent spray pressure. Back-roll product with a high quality lambswool or similar cover

#### 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.**



**EPMAR Corporation - A Quaker Houghton Company**

9930 Painter Ave, Whittier, CA 90605-3254

P: 562.946.8781 F: 562.944.9958

epmar.com | kemiko.com

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