



Concrete Coatings & Floor systems

APPLICATION BULLETIN

Kemiko® Sta Crete 100% Solids Epoxy (SS1500 Series)

Description

Kemiko® STA-CRETE® 100% Solids Epoxy (SS1500) is a two component, abrasion resistant epoxy coating offering excellent adhesion to concrete for pool and marine show aquaria. Benefits of the product include being low VOC, low odor, self-leveling, vertical sag resistant and cures quickly to a very hard resilient high-gloss film. This product has been an industry standard for over 30 years and is veterinarian approved for use with seals, whales and walruses. SS1500 series is compliant to all EPA and SCAQMD regulations.

Applications

Kemiko® STA-CRETE® SS1500 can be applied to properly prepared concrete and fiberglass subject to continuous abrasion service as well as salt water & chlorinated water immersion. This product has successfully been applied in theme parks, water parks, commercial aquariums, show aquariums, fountains, water features, and swimming pools.

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 and shot blasting to achieve a surface profile of CSP 3-5. The concrete should have a slight texture for the coating to achieve proper penetration and adhesion. Clean surface and ensure that all contaminants, dust, and debris 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.

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

Kemiko® SS1500 series is packaged in such a way that a separate container is not needed for mixing. Using a mechanical jiffy-type mixer, blend SS1500 Part A Resin component at slow speed (500-1000rpm) for 1-2 minutes until a homogenous mixture is achieved. Next, pour SS1500 Part B Hardener component into the previously mixed Part A component. 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 bubbles into the system. Scrape sides of container and then mix for an additional 1-2 minutes, ensuring material is thoroughly blended.

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 one of the methods outlined below. Tape off any area that does not require coating. Pour contents in "ribbons" or "strips" across the surface to be coated. Spread material out with a brush or roller to the recommended wet film thickness. A second coat can be applied up to 24 hours after the first coat has reached a dry to touch state. Do not thin material.

- **Brush** - Use high quality bristle brush for best film properties
- **Roller** - Use lambswool or similar cover with phenolic core, 3/8 - 1/2" (9.5-12.7mm) 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 Acetone, Denatured Alcohol, or MEK 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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