



**Kemiko
Industrial
Coatings**

TECHNICAL BULLETIN

KEMIKO® (STA CRETE) SS1600 Water Extended Epoxy Coating

Description

KEMIKO® SS1600 is a two component, water extended epoxy coating that offers excellent physical properties, a long pot life, low-VOC, water clean up, low odor, and is designed to be used as a thin film resilient primer/finish. KEMIKO® SS1600 can be applied on cement floors, steel, wood, plaster and even damp surfaces. KEMIKO® SS1600 cures overnight and is available in clear and various colors. According to United States Department of Agriculture guidelines, this coating has been determined to be chemically acceptable for application to structural surfaces where there is a possibility of incidental food contact in official establishments operating under the Federal Meat and Poultry Products Inspection Program.

Applications

KEMIKO® SS1600 is applied to properly prepared cement and steel substrates subject to traffic and chemicals. KEMIKO® SS1600 is ideal for garages, hangars and warehouse floors, architectural applications, food and chemical processing facilities, hospitals, and many other applications that require a cost-effective, surface tolerant, general maintenance coating. KEMIKO® SS1600 may also be utilized as a prime coat for STA-CRYL 47 Acrylic and KEMIKO® SS2700 Aliphatic Polyurethane topcoats.

Physical Characteristics

	Clear	Pigmented
Volume Solids	45%	45%
VOC	Max VOC 250 g/l	Max VOC 100 g/l
Packaging	1.3 and 4 (premeasured kits)	1.6 ^s and 4.8 (premeasured kits)
Flash Point	>200 °F.	—
Gloss	>90 (gloss)	>90 (gloss)
Mix Ratio	1:3 (A:B) by volume	1:4 (A:B) by volume (most)
Pot Life	6 hours at 70°F., 50% RH	
Dry Time	@70°F. 50% RH Recoat in a minimum of 6-hours to a maximum of 3-days. Foot traffic in 18 hours; Full cure in 5-days @ 60°F. 40% RH—Recoat (min 12 hours, max 10 days @ 90°F.) 30% RH—Recoat (min 3 hours, max 3 days)	
Film Thickness	3-5 mils DFT	
Coverage	225-250 ft ² - First coat 250-275 ft ² - Second coat 1 gallon will cover approx. 225 ft ² /1 coat	
Thinning	0-10% by volume with clean water only. Water for clean up.	
Primers	Self priming	
Colors	Various	
Topcoats	STA-CRYL 47 Acrylic, KEMIKO® SS2700 Polyurethane (for exterior color and gloss retention)	

Surface Preparation

Concrete –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation, acid etching and water washing. Surface shall be cured, dry and free from alkali stain and laitance. Prepare surfaces in accordance with SSPC-SP7 Brush-Off Blast Cleaning or use Blastrac for long term adhesion and non-slip surface on floors.



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Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation. Prepare carbon steel in accordance with SSPC-SP6 and achieve 1-2 mil surface profile. Small surfaces may be prepared in accordance with SSPC-SP2 and SSPC-SP3 followed by SSPC-SP1.

Wood –

Surface must be completely dry, free of any contaminants, mildew and organic matter.

Existing Coatings –

High-pressure wash off any chalk; remove all visible grease, oil, dirt or any other deleterious matter. Spot prime bare surfaces prior to full application coat.

Application Methods

Mixing –

Mix Part B component until a homogeneous mixture is obtained. Next, pour Part A into Part B component and mix using mechanical jiffy mixer for 2-3 minutes at medium speed. Avoid mixing air into the mixture. Scrape the container sides and make sure all material is thoroughly mixed. Pouring mixed material into a clean container and re-mixing insures complete reaction of epoxy coating. Allow 15 minutes induction time and then remix again prior to application. If needed add up to 10% water to lower viscosity. Add water after induction time.

Brush –

Use top-quality nylon bristle brush for best film properties.

Roller –

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness. Use minimal pressure. Cold surfaces may require some thinning with water.

Spray –

Airless Spray – Use Graco 33:1 airless equipment or equal designed for spraying high solids coatings. Use Binks 'Airless 1' spray gun with reverse-a-clean .017-.019 spray tips, 3/8" or larger solvent resistant fluid line with ¼" or larger air supply line. Adjust pump pressure to the lowest possible setting that allows proper atomization.

Environment –

Apply between 60°F. – 100°F. and 5°F. above dew point.

For Industrial Use Only.

Contact EPMAR for any additional application information.

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, which 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.

Service is part of our formula

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09/28/10