



Concrete
Coatings &
Floor Systems

TECHNICAL BULLETIN
Kemiko® (Sta Crete) SS2800
100% Solids High Gloss Self Leveling
NOVOLAC Epoxy Coating

Description

Kemiko SS2800 is a chemical resistant, highly reflective, abrasion resistant cycloaliphatic amine cured Novolac epoxy coating that offers 0-VOC, excellent adhesion to steel and concrete, is user friendly, and cures to a very hard resilient high gloss film. Kemiko SS2800 can be applied as an acid, alkaline and solvent resistant primer/finish coat on most interior surfaces and as a compatible epoxy primer and intermediate coat when topcoated with Kemiko SS2700 Polyurethane or SS3300 Polyaspartic on exterior surfaces. Kemiko SS2800 is non-blushing in high humidity, cures overnight and is available in gray, white and tan 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. 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 SS2800 is applied to properly prepared concrete, FRP, GFRC, metals and utilized as a resilient protective primer/finish coat for chemical containment, abrasion resistance, and as a complete 0-VOC exterior coating system when topcoated with Kemiko SS2700 Polyurethane or SS3300 Polyaspartic for optimum color and gloss retention. Typical applications include food processing floors, petrochemical and chemical secondary containment, battery charging stations, plating facilities, and many other surfaces requiring abrasion resistance, chemical resistance, and environmental application.

Physical Characteristics

VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Tensile Strength (ASTM C-307)	6,800 psi
Adhesion (ASTM D-4541)	Excellent >1,000 lbs. psi
Chemical Resistance	Splash, Spillage & 72-hour containment of Aromatic Hydrocarbons, Ketones, Dilute Organic Acids, Alkalis
Tensile Elongation	2.5%
Ultimate Flexural Strength	12,700 psi
Compressive Strength (ASTM C-579)	Max VOC 50 g/l
Hardness Shore D	90
Volume Solids	100%
Packaging	1.5 gal & 5 gal (premeasured kits)
Flash Point	>200°F
Gloss	High gloss
Mix Ratio	2:1 (A:B) by volume
Pot Life	45 minutes (1-gal mixed) at 70°F
Dry Time	@ 70°F., 50% RH, Recoat within 4-24 hours. Full cure in 5 days (chemical resist.)
Recoat Intervals	50°F min. 16 hours - max. 72 hours. 70°F min. 8 hours - max. 24 hours. 90°F min. 4 hours - max. 12 hours
Film Thickness	3-100 mils
Coverage	160 ft ² per gallon @10 mils DFT
Thinning	None required
Primers	Self priming on most concrete surfaces, or use: Kemiko SS1218, SS1600, or SS3500. On carbon steel, use ZRC (Zinc Rich Primer) Zero VOC Inorganic Zinc
Colors	Various (see color chart)
Topcoats	Kemiko SS2700 Polyurethane (for exterior UV, color & gloss retention) & SS3300



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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, Blastrac or other approved mechanical method to achieve a 60-80 grit profile for long term adhesion and non-slip surface on floors.

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.

Clean Up — Acetone or PCBTF for clean-up.

Application Methods

Mixing —

Mix base component until a homogeneous mixture is obtained. Next, pour activator into base component and mix using mechanical jiffy mixer for 2-3 minutes. Make sure all material is thoroughly mixed. Pouring mixed material into a clean container and remixing insures complete reaction of epoxy coating.

Brush —

Use top quality bristle brush for best film properties.

Roller —

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness.

Spray — Conventional

Use galvanized or other alloy metal pressure tanks with dual regulation and standard duty agitation, Binks '2001' spray gun, #66 fluid nozzle, #66SD air cap, #565 fluid needle, Teflon fluid packing, 3/8" or larger solvent resistant fluid line and ¼" or larger air supply line. Adjust air and material pressure to the lowest possible setting that allows proper atomization.

Airless Spray —

Use Graco 40:1 airless equipment or equal designed for spraying high solids coatings. Use Binks 'Airless 1' spray gun with reverse-a-clean .019-.021 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 50°F – 100°F and 5°F above dew point.

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.



Epmar Corporation
13240 Barton Circle, Santa Fe Springs, CA 90605-3254
Ph: 562.946.8781 / Fax: 562.944.9958
www.epmar.com / www.kemiko.com