



*Kemiko
Industrial
Coatings*

TECHNICAL BULLETIN

KEMIKO® (STA CRETE) SS3300 Gray 100% Solids Polyaspartic

Description

KEMIKO® SS3300 Gray is a 100% solids two component polyaspartic that exhibits excellent adhesion, UV resistance, abrasion resistance and chemical resistance. This is a 0-VOC environmentally friendly product that can be used as a decorative or industrial environment basecoat and topcoat for exterior and interior concrete and carbon steel substrates. KEMIKO® SS3300 Gray has no or very low odor and utilizes the best available 100% solids polyaspartic technology for environmental and chemical exposure. 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® SS3300 Gray is applied to properly prepared and prime coated concrete and steel for use in food processing plants, water treatment facilities, warehouses and showroom floors, airport maintenance facilities, parking deck garages, exterior concrete and steel tanks, pipe lines and many other service areas that require a resilient, chemical resistant protective coating. KEMIKO® SS3300 Gray may be applied by brush, roller or with Graco Xtreme Mix or equal application equipment with mechanical plural dispensing equipment capable of maintaining a consistent 1:1 mix ratio.

Component Properties

Property	SB 3300 Gray (PAE)	SA 3300 Gray
Average WPG (Sp. Gr.)	0.953 lbs/gal (1.145)	9.69 lbs/gal (1.166)
Viscosity (cps)	2,800 - 3,200	2,500 - 4,000
Color/Appearance	Light gray liquid	Clear, colorless liquid

General comments:

1. Do not expose either component to moisture or humidity. Both components must be kept under dry conditions in tightly sealed containers until ready to use.
2. SB3300-gray pigment may settle with time. Mix well before using. Do not incorporate air during mixing of SB3300 or SS3300.

Physical Characteristics

VOC	0 g/l
Hardness (ASTM D2240)	4H pencil hardness (10 mil coating on steel, cured @ ambient for 24 hours)
Volume Solids	100%
Packaging	1 gallon and 6 gallon
Flash Point	>200°F.
Gloss	High Gloss
Mix Ratio	1:1 (A:B) by volume
Pot Life	*40 minutes (roll application at 77°F., 50% RH)



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Dry Time	2-3 hour to touch, recoat 3-48 hours (roll application @ 77°F/50% RH). 3-6 hours cure for foot traffic. 24-48 hours for vehicular traffic. 10-14 days for full cure and the development of full chemical and physical properties. * Results and final properties may vary based on temperature and humidity of the substrate and environment.		
Film Thickness	5-10 mils (on dry, cleaned, horizontal substrates)		
Coverage	100-300 ft ² per gallon depending on requirements		
Thinning	None required or recommended. Acetone only for clean up.		
Primers - Steel - Concrete	KEMIKO® SS3800 KEMIKO® SS1600, KEMIKO® SS3700, KEMIKO® SS3800		
Color	Gray		
Topcoats	None required		
Abrasion	0.0280 g weight loss (CS-10 with Taber 5130 Abrasor @ lab RT) 0.1060 g weight loss (H-18 with Taber 5130 Abrasor @ lab RT) 20 mils coating on steel panels, cured @ ambient for 24hours		
Chemical Resistance	<u>Chemical</u>	<u>Pencil Hardness</u>	<u>Coating</u>
	Control	4H	24 hr ambient cure
	DOT3/4	4H	24 hr ambient cure/8 day RT exposure
	DOT3	4H	24 hr ambient cure/8 day RT exposure
	DOT4	4H	24 hr ambient cure/8 day RT exposure
	Skydrol LD4	4H	24 hr ambient cure/8 day RT exposure
	Coating: 1:1 (A:B) by volume, 20 mil coating, 24 hour cure @ ambient (lab) condition. Chemical Exposure: 8 days @ ambient, covered with watch glass. Slight swelling.		

* Pot life or application time depends on many variables including temperature, humidity, mix weight, agitation and other factors. Smaller mix weights, lower temperatures and humidity and agitation may give longer pot life. Application and cure time: Do not apply on wet surfaces. Cure time depends on the substrate temperature, moisture of the substrate and the environment and other factors.

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 Blas-Trac for long term adhesion and achieving a 60-80 grit surface profile.

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.



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Application Methods

Mechanical Spray –

KEMIKO® SS3300 Gray is designed to be applied with mechanical plural component, proportioned application equipment. Material temperature should be maintained at 70°F. – 80°F. to produce a consistent flow through the mechanical pumping system. Airless Spray – Use Graco “Xtreme Mix” 68:1 equipment or equal designed for plural-component, high-pressure spray application. High-pressure equipment shall have the capability to apply product to a maximum 7500 psi from the proportioner to meet job conditions. Re-circulating system and solvent purge equipment is necessary to keep material maintained and spray equipment cleaned during application delays and/or periods when exceeding product pot life. Use Graco “Xtreme” spray gun utilizing .021-.025 spray tips to control material application thickness.

Hand Mixing & Application –

KEMIKO® SS3300 Gray could be hand mixed and poured as long as the product temperature is at least 60°F. complete mixing is achieved within 2-minutes and immediately poured onto prepared surface. Use mechanical jiffy mixers to thoroughly mix material. Use ¼”- ½” nap quality roller covers and nylon bristle brushes.

Environment –

KEMIKO® SS3300 Gray can be applied at substrate and environmental temperatures as low as 30°F. and as high as 100°F. and 5°F. above dew point providing the material temperature is maintained at ambient condition.

Safety –

CONTAINS POLYUREA/POLYURETHANE AND ISOCYANATE RESINS! DO NOT USE IF YOU HAVE AN ADVERSE REACTION TO THESE CHEMICALS!

Disclaimer –

Information provided in this technical bulletin is a guideline only based on laboratory testing. Customer needs to test the material for their application under their application conditions before using the product.

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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