

Kemiko

Kemiko SS2700 SERIES
WATERBORNE ALIPHATIC
POLYURETHANE
LEED Certified

Description

Kemiko SS2700 SERIES Aliphatic Polyurethane's are waterborne, universal, high solids, two component products that offers 0-VOC, UV resistance, good chemical resistance, excellent abrasion resistance, is user friendly, and cures to a very durable film. Kemiko SS2700 is also supplied in clear self-leveling formulation and has a temporary light amber cast when subjected to exterior atmospheric exposure. Available in high gloss or satin finish.

Applications

Kemiko SS2700 SERIES is applied to properly prepared concrete, plaster, wood, FRP, GFRC, metals and utilized as a resilient protective finish coat over Kemiko SS water base epoxies. Typical applications include hospital walls and floors, commercial cement floors, facades, steel and concrete storage tank exteriors, steel and concrete bridges, pump equipment, and many other surfaces requiring abrasion resistance, graffiti resistance, color retention and chemical resistance.

Performance

VOC – 0 g/l Meets Final SCAQMD Rule 1113 (2008)

Pencil Hardness – 4H ASTM D-3363

Adhesion – Excellent >1,000 lbs. PSI ASTM D-4541

Chemical Resistance – *Splash & Spillage of Aromatic Hydrocarbons, Ketones, Dilute Organic Acids, Alkalis, Spray Paint, Salt Spray.*

Excellent Leveling & Flow – *Brush, Roll & Spray Applications*

Weathering – 90% Gloss Retention @1500 Hours ASTM G-53

Impact Resistance - >175 in. /lbs. ASTM D-2794

O-T Bend Adhesion – Pass ASTM D-4145-90

Kemiko NW

T: (503) 627-0111 F: (503) 627-0400

E-mail: jo@kemikostain.com

Physical Characteristics

	<u>Clear</u>	<u>Pigmented</u>
Volume Solids:	75%	77%
Weight per Gallon:	9.2 lbs.	10.0 lbs.
Packaging:	1.25-gallon	1.50-gallon
Flashpoint:	>200°F. (Non-Flammable)	
Gloss:	High Gloss – clear and pigmented	
Colors:	White, Mid-Tone White, Clear & Colors (See Color Charts)	
Mix Ratio:	2:3 (A: B) by volume	1:2 (A: B) by volume
Pot Life:	@70°F., 50% RH: 1.5-hours	
Dry Time:	@70°F. 50% RH, 5-hours to touch, foot traffic 14-hours. Heavy traffic in 24-hours, Full cure in 72-hours (chemical resist.)	
Recoat Interval:	50°F – min. 12-hours, max. 72-hours. 70°F – min. 6-hours, max 24-hours. 90°F – min. 3-hours, max. 12-hours.	
Film Thickness:	4-5 mils wet to achieve 2.5-3.5 mils dry film thickness DO NOT EXCEED 6 MILS DFT - AIR ENTRAPMENT AND FOAMING MAY OCCUR	
Coverage:	300-400 square feet per gallon – per coat	
Thinning:	Add 0%-5% water required for spray. Add 5%-15% water for brush and roll.	
Primers:	Self-priming or Kemiko SS1600, Kemiko SS3700	

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. Blas-Trac is preferred for long term adhesion and non-slip surface.

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 surfaces prior to full application coat.

Application Methods

MIXING – Mix “B” component until a homogeneous mixture is obtained. Next, pour “A” component into “B” component and mix slowly (500-1,000 rpm) using a mechanical “jiffy mixer” for 1-2 minutes. Allow 5-minute induction period before any reducing or application. Reduce with clean fresh water 5-15% depending on application requirements.

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

Roller – Lambs wool 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 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. Acetone and PCBTF can be used for cleaning equipment.

Environment – Apply between 50°F. – 100°F. And 5°F. Above dewpoint.

Safety – Areas such as pool decks, sloped driveways, or other surfaces subjected to water may become slippery if coated with Kemiko SS2700 Aliphatic Urethane. If you must seal these surfaces, keep the sealer film build-up to a minimum. In severe cases a non-slip material such as fine glass beads, washed silica sand and other aggregates may be broadcasted between coating applications. CONTAINS POLYOL AND ISOCYANATE RESINS! DO NOT USE IF YOU HAVE AN ADVERSE REACTION TO THESE CHEMICALS! Contact Kemiko NW 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.

1/26/2004