TECHNICAL BULLETIN

Concrete
Coatings &
Floor Systems

TECHNICAL BULLETIN
Kemiko® Water Based Quick Dry Epoxy - High Gloss (SS3700)

Description
Kemiko SS3700 is a high gloss, quick dry, water extended epoxy coating that offers excellent adhesion, abrasion resistance, low odor, and is designed to be used as a thin film resilient primer/finish. This product can be applied to cement, steel, wood and plaster surfaces. Kemiko SS3700 is USDA acceptable in food processing facilities, cures in 1-2 hours and is available in various colors.

Applications
Kemiko SS3700 is applied to properly prepared cement and steel substrates subject to traffic and chemicals. Kemiko SS3700 is ideal for architectural applications, food and chemical processing facilities, hospitals, water and wastewater treatment facilities, and many other applications that require a cost-effective surface tolerant general maintenance primer/finish. Kemiko SS3700 may be utilized as a prime coat application for Kemiko SS1600, SS1202, SS1202 UVR, SS3400, SS2700 Aliphatic Polyurethane topcoats and SS3200, SS3300 Polyaspartic.

Physical Characteristics

	Clear	Pigmented
Volume Solids	50%	50%
Packaging	0.9 gal & 4.7 gal (premeasured kits)	1.0 gal & 4.8 gal (premeasured kits)
Flash Point	>200°F	>200°F
Gloss	High gloss	High gloss
Mix Ratio	4:1 (A: B) by volume (Clear)	2:1 (A:B) by volume (Colors)
VOC	>100 g/l	>100 g/l
Pot Life	6 hours at 70°F, 50% RH	
Dry Time	@ 70°F 50% RH - Recoat (min. 2 hours max 5 days). Dry for foot traffic in 4 hours – heavy traffic in 12 hours. Full cure in 7 days. @ 50°F 40% RH - Recoat (min. 6 hours max 10 days). @ 90°F 30% RH - Recoat (min. 1 hour max 3 days).	
Film Thickness	2-3 mils DFT	
Coverage	350 ft²/gallon (two coats)	
Thinning	None required	
Primers	Self priming	
Colors	Various	
Topcoats	Kemiko SS1600, SS1202, SS1202 UVR, SS3500 Kemiko SS2700, SS3200 & SS3300 for exterior 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.

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.

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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.

Clean Up — Water for clean up.

Application Methods

Mixing CLEAR —
Mix Part A component until a homogeneous mixture is obtained. Next, pour Part B into Part A and mix using mechanical jiffy mixer for 2-3 minutes at low speed. Avoid mixing air into the mixture. Scrape sides of the container and make sure all material is thoroughly mixed. Pouring mixed material into a clean container and remixing insures complete reaction of epoxy coating. Allow minimum 15-minute induction time prior to application. Once the induction time has elapsed, dilute, if needed, with 10% fresh clean water and remix. No further induction time is required.

Mixing PIGMENTED — Mix Part B thoroughly on a low speed. Then, pour Part B into Part A and mix on a low to medium speed for 2-3 minutes until a homogeneous mixture is obtained. Avoid mixing air into the mixture. Scrape sides of the container and make sure all material is thoroughly mixed. Pouring mixed material into a clean container and remixing insures complete reaction of epoxy coating. Allow a 15-minute induction time before application. Once the induction time has elapsed, dilute, if needed, with 10% fresh clean water and remix. No further induction time is required.

IMPORTANT: It is a normal occurrence in the Pigmented Part B component for the contents to separate over time and in certain environmental conditions. DO NOT strain Part B. Instead, mix Part B thoroughly until the contents appear uniform and smooth. Then, proceed with the remaining mixing instructions.

Brush — Use top quality bristle brush for best film properties.
Roller — Lambswool or similar cover with phenolic core, ¼ - ⅜ inch nap thickness.
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, ⅜" 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.

To ensure color consistency when using multiple batches of the same color, "boxing" is recommended.

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.

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