TECHNICAL BULLETIN

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STA-CRETE 1600 SERIES
Water Extended Epoxy Coating

Description

STA-CRETE 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. **STA-CRETE SS1600** can be applied on cement floors, steel, wood, plaster and even damp surfaces. **STA-CRETE SS1600** is USDA acceptable in food processing facilities, cures overnight and is available in various colors. **STA-CRETE SS1600** is now packaged in convenient premeasured, easy to mix in kits.

Applications

STA-CRETE SS1600 is applied to properly prepared cement and steel substrates subject to abrasion service, garage, hangar 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. **STA-CRETE SS1600** may also be utilized as a prime coat for Sta-Crete 2700 Series Aliphatic Polyurethane topcoats.

Performance

Max VOC < 250 g/l
Abrasion Resistance – 77 mg. loss *ASTM D-4060*
Adhesion – Excellent > 700 lbs. psi *ASTM D-4541*
Chemical Resistance – *Seawater, 5% Acetic Acid, 10% Sulfuric Acid, 10% Caustic, Ammonium Hydroxide, Gasoline/Jet Fuel, Brake Fluid/Skydrol. (72-hour immersion at 77°F.)*
Direct Impact Resistance – 50 in/lb *ASTM D-2794*
Flexibility – Pass *180° bend on ¼" mandrel*
Compressive Strength – 13,800 psi *ASTM C-579*
Hardness Shore D – 85

Physical Characteristics	**Clear /Black**	**Other Pigmented**
Volume Solids:	43%	42%
Weight Per Gallon:	8.8 lbs.	10.1 lbs.
Packaging:	1.3 & 4 gal	1.6 & 4.8 gal (all premeasured kits)
Flashpoint:	>200°F.	--
Gloss:	Gloss	--
Mix Ratio:	**1:3 (A:B) by volume.**	**1:4 (A:B) by volume.**
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. Dry for walking traffic is 18 hours. Full cure in 5-days. @60°F. 40% RH – Recoat in minimum of 12-hours to a maximum	

	of 5-days. @90°F. 30% RH – Recoat in a minimum of 3-hours to a maximum of 48-hours.
Film Thickness:	3-5 mils DFT
Coverage:	350-400 sq. ft/gal/coat or 175-200 sq. ft./gal - 2 coats finished
Thinning:	0-20% by volume with clean water only. Water for clean up.
Primers:	Self priming
Colors:	Various
Topcoats:	Sta-Crete 3700, Sta-Crete 2700 Series 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.
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 base 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. 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 5-minute induction time and then remix again prior to application. Add water for thinning if needed only after mixing parts A and B and the 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 50°F. – 100°F. and 5°F. above dew point.
Contact KEMIKO 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.