

TECHNICAL BULLETIN

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STA-CRETE 3700 *WB High Gloss Epoxy Coating*

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Description

STA-CRETE 3700 is a high gloss, quick dry amine cured 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. Sta-Crete 3700 can be applied on cement walls, steel, wood and plaster surfaces. STA-CRETE 3700 has over 10-years successful case history file, is USDA acceptable in food processing facilities, is recoatable in 1-2 hours, and is available in various colors.

Applications

STA-CRETE 3700 is applied to properly prepared cement and steel substrates subject to abrasion service, 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. Sta-Crete 3700 may be utilized as a prime coat application for STA-CRETE 100% Solids Epoxies, STA-CRETE SERIES 2700 Aliphatic Polyurethane topcoats, as well as an excellent interior clear coat over KEMIKO & REMBRANDT stains.

Performance

VOC – 95 g/l Meets SCAQMD Rule 1113 Through 2008

Abrasion Resistance – 45 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.)

Optical Density of Smoke Generation – 8.3 min. maximum (Flaming Mode), 20 min. maximum (Non-Flaming Mode) ASTM E-662

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

	<u>Clear</u>	<u>Pigmented</u>
Volume Solids:	50%	50%
Weight Per Gallon:	8.9 lbs.	10.6 lbs.
Packaging:	1s & 5s (premeasured kits for clear & pigmented)	
FlashPoint:	>200°F. for clear and pigmented.	
Gloss:	High Gloss for clear and pigmented	

Mix Ratio:	4:1 (A:B) by volume	2:1 (A:B) by volume
Dry Time:	@70°F. 50% RH – Recoat in minimum of 2 hours to a maximum of 5-days. Dry for foot traffic in 4-hours – heavy traffic in 12-hours. Full cure in 7-days. @50°F. 40% RH - Recoat intervals are increased to 6 hours minimum to 10-days. @90°F. 30% RH – Recoat intervals are decreased to 1-hour minimum to 3-days maximum.	
Film Thickness-Coverage:	2-3 mils DFT- 350 square feet per gallon, per coat.	
Thinning:	Normally, none required or a maximum of 10% clean water by volume reduction. Water is used for clean up.	
Primers:	Self priming	
Colors:	Various – See Color Chart	
Pot Life:	6 hours at 70°F, 50% RH	
Topcoats:	STA-CRETE 1202, STA-CRETE 1500, STA-CRETE 1600, STA-CRETE 2900, and 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 Blas-Trac 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 surfaces prior to full application coat.

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 re-mixing insures complete reaction of epoxy coating. Allow minimum 10-minute dwell time prior to application.

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 – 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 dewpoint.

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.