



STA-CRETE 1600 ***WATER EXTENDED EPOXY COATING***

Description

STA-CRETE 1600 is a quality abrasion resistant amine cured water extended epoxy coating that offers low-VOC, has excellent adhesion, surface tolerance, low odor, and is designed to be used as a thin film resilient primer/finish. Sta-Crete 1600 Series Epoxy has over 20-years successful case history, can be applied on cement floors, steel, wood and plaster surfaces. STA-CRETE 1600 is USDA acceptable in food processing facilities, cures overnight and is available in various colors.

Applications

STA-CRETE 1600 is applied to properly prepared cement and steel substrates subject to abrasion service, warehouse floors, garages, architectural applications, food and chemical processing facilities, hospitals, and many other applications that require a cost-effective surface tolerant general maintenance primer/finish. Sta-Crete 1600 may be utilized as a prime coat application for Sta-Cryl 47 Acrylic Polymer and Sta-Crete 2700/3300 Series Aliphatic Polyurethane topcoats.

Performance

VOC – 75 g/l *Meets SCAQMD Rule 1113 Through 2006*

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*

Static Coefficient of Friction – 0.76 (Dry), 0.95 (Wet) *ASTM D-2047-93*

Hardness Shore D – 85

AUTHORIZED DISTRIBUTOR

COHILLS BUILDING SPECIALTIES, INC.

3825 E. ANNE STREET – PHOENIX, AZ 85040

TEL: (602) 266-0462 WEB: www.cohills.com

Physical Characteristics

	<u>Clear & Black</u>	<u>Pigmented</u>
Volume Solids:	60%	60%
Weight Per Gallon:	8.8 lbs.	10.1 lbs.
Packaging:	1.3 & 4.0 gal. kits	1.6 & 4.8 gal. kits
FlashPoint:	>200°F. clear and pigmented	
Gloss:	Gloss – clear and pigmented	
Mix Ratio:	1:3 (A:B) by volume	1:4 (A:B) by volume
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. @50°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 – 200-320 square feet per mixed gallon, per coat.	
Thinning:	0-10% by volume with clean water only(20% by volume for applications between 50°F.-60°F. – Horizontal Only!). Water for clean up.	
Primers:	Self-priming or Sta-Crete 3700, Sta-Crete 1218, Sta-Crete 2900, ZRC Zinc.	
Colors:	Various	
Pot Life:	6 hours at 70°F, 50% RH	
Topcoats:	Sta-Cryl 47, Sta-Crete 1202, Sta-Crete 2700/3300 Series Polyurethane (for exterior color and gloss retention), Sta-Crete 2900, Sta-Crete 2102.	

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 or other approved mechanical method to achieve a 60-80 grit profile 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 – Lambswool 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.

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.