



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

STA-CRETE® SS1500
100% Solids Epoxy
Commercial & Show Aquaria Coating

Description

STA-CRETE® SS1500, formerly known as 18R Flex is a 100% solids, 0-VOC epoxy coating that has been specially formulated to coat marine show aquaria. SS1500 offers excellent adhesion, is abrasion resistant and available in highly decorative colors. The coating cures to a resilient porcelain-like high gloss film and is self priming on most surfaces. STA-CRETE® SS1500 is veterinarian approved for use with seals, whales and walrus and has been an industry standard for over thirty years.

Applications

STA-CRETE® SS1500 is applied to properly prepared concrete, fiberglass, and steel surfaces subject to continuous abrasion service and salt and chlorinated water immersion, associated with Theme Parks, Commercial and Show Aquariums, Fountains, and Water Features. STA-CRETE® SS1500 provides a very resilient lining which cures rapidly for minimum down time and is applied by brush and roller application.

Physical Characteristics

VOC	0 g/l
Volume Solids	100%
Packaging	1 ^s and 5 ^s (premeasured kits)
Flash Point	>200°F.
Gloss	High Gloss
Mix Ratio	2.15:1 (A:B) by volume
Pot Life (100 gm mass)	20 minutes at 70°F., 50% RH
Dry Time	@70°F., 50% RH Recoat in 4-24 hours; Full cure in 3-days
Film Thickness	4-8 mils per coat, 12-16 mils total DFT
Coverage	100-125 ft ² @ 13-16 mils (applied in two coats)
Thinning	None required. Contact Epmar for details. Acetone or PCBTF for clean up.
Primers	Self priming
Colors	Various (see color chart)
Topcoats	None required

Surface Preparation

Concrete –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation 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 surface profile.

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-SP10 and achieve 3-4 mil surface profile. Small surfaces may be prepared in accordance with SSPC-SP2 and SSPC-SP3 followed by SSPC-SP1.



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Application Methods

Mixing –

Mix Resin A component until a homogeneous mixture is obtained. Next, pour Hardener B into Resin A component and mix using mechanical jiffy mixer at slow speed for 2 minutes. Avoid mixing air into product. Scrape the container sides and bottom to make sure that all material is thoroughly mixed. Pouring mixed material into a clean container and re-mixing insures complete reaction of epoxy coating. The pot life will be shorter at higher temperatures. Pouring mixed material out of the container and onto the floor immediately will greatly extend working time.

Roller –

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness.

Brush –

Use top-quality china bristle brush for best film properties.

Spray –

Airless Spray – Use equipment designed for plural component, high pressure spray application with in line fluid heaters. Recirculating system and solvent purge equipment is necessary to keep material maintained and spray equipment cleaned during application delays and/or periods when exceeding product pot life.

Environment –

Apply between 70°F. – 100°F. and 5°F. above dew point.

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.

Service is part of our formula

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