Rhino Flooring™
NATURALLY TOUGH
By Rhino Linings®

RhinoCrete™ SF
Data Sheet

DESCRIPTION: RhinoCrete™ SF by Rhino Linings® is the latest generation of polyurethane concrete, specifically formulated to provide market leading chemical, heavy impact and thermal shock resistance, whilst exhibiting all of the installation properties that professional contractors demand. RhinoCrete SF is a self level, heavy duty, seamless, cementitious-urethane concrete overlay. Typically applied between 1/4″ – 5/16″, this system is designed to thrive where other floors fail. This broadcast system provides a great balance of slip resistance and clean-ability, available in solid color (SF), decorative quartz (SFQ) or decorative flake (SFF). It provides uncompromising performance characteristics with user friendly trowel-ability, working time and low odor – a unique formula for success.

TYPICAL USES: RhinoCrete™ SF is one of the toughest self level floors available, making it suited to a very wide range of industrial and commercial flooring applications. These include: all food & beverage processing, pharmaceutical plants, commercial kitchens, mechanical rooms, engineering m/c shops manufacturing, loading docks, hot/cold wash areas, chemical processing, chilling/refrigeration areas, prisons and hospitals.

FEATURES & BENEFITS:

- Longer Working Time
- MicrobeuBLOK Antimicrobial
- Non-Food Tainting
- ProColor Universal Colorants
- Superior Flow & Leveling
- Low Odor/Zero VOC
- Meets USDA, FDA, & CFIA Standards
- Can Be Applied to 5 Day Old Concrete
- Self-Priming
- LEED – Renewable Resources
- Superior Adhesion Quality
- Excellent Thermal Shock Resistance
- Reduced Outgassing
- Excellent Chemical, Stain & Impact Resistance
- Can Be Applied at Lower Temperature, Down to 36ºF
- Moisture Tolerant System up to 25 lbs or Internal RH of 99%
- Service Temperature up to 220°F, or 250°F for Intermittent Spills
- RhinoCrete™ Accelerator available for Fast-Track Projects & Quicker Return to Service

PHYSICAL CHARACTERISTICS	
Mix Ratio (by volume)	1 unit of resin, 1 unit of hardener, pigment pack and 1 blended aggregate bag
Viscosity at 70°F	Not Applicable
Pot life at 70°F	20 minutes
Cure Time, Tack-Free at 70°F	8 hours
Working Time at 70ºF	25 minutes
Volatile Organic Compound	(VOC) nil

APPLICATION METHODS: See application guide lines for details.

PACKAGING: Pre-measured kits: 1 unit of resin, 1 unit of hardener, pigment pack and a blended aggregate bag

STORAGE: Materials should be stored indoors between 65°F (18°C) and 90°F (32°C)

SHELF LIFE: Unopened containers - 1 year from date of manufacture. Cement based aggregates should be stored in a dry environment for maximum shelf life.

COVERAGE: One single kit of RhinoCrete™ SF will cover approximately 24 sq ft @ 3/16” thickness

RHINOCRETE SF (continued):

CHEMICAL PROPERTY	TEST METHOD	SF
Hardness (Shore D)	ASTM D-2240	80
Adhesion	ASTM D-4541	>400 psi, substrate fails
Impact Resistance	ASTM D-2794	>160 in./lb.
Water Absorption	ASTM D-570	<0.1%
Flammability	ASTM E-648	Class 1
Abrasion Resistance: CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	50 mg loss
Coefficient of Friction (James Friction Tester) Wet Dry	ASTM D-2047	 0.9 (smooth) 0.9 (smooth)
Heat Resistance Limitati on Thermal Cycling (5 min. interval) (10 min. interval) Continuous Heat	 Hot Oil (400ºF) to Ice Water (25ºF) Hot Oil (400ºF) to Ice Water (25ºF) 1 hour 300°F Hot Oil Submersion	 40 cycles – no effect 40 cycles – no effect no effect
Compressive Strength	ASTM C-579	9,500 psi
Tensile Strength	ASTM C-307	1,500 psi
Flexural Strength	ASTM C-580	2,200 psi
Flexural Modulus of Elasticity	ASTM C-580	2.6 × 106 psi
Thermal Coefficient of Linear Expansion	ASTM C-531	1.1 × 10-5 in./in.°F

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS) Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines. **For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

Rhino Linings®
PROTECTION NEVER LOOKED SO GOOD™

Rhino Linings Corporation
9747 Businesspark Avenue, San Diego, CA 92131
858-450-0441 • Fax 858-450-6881
1-800-422-2603
www.rhinolinings.com