



STRONGCOTE SC-111

Product Data Sheet

Breathable Pedestrian Traffic Deck System

STRONGCOTE SC-111 is a multipurpose, vapor permeable pedestrian grade coating system designed to prolong the in-service lifespan of the facility. It is suitable for most concrete and masonry surfaces. SC-111 protects the structure against chemical attack and exposure due to weathering. STRONGCOTE transmits moisture vapor while maintaining excellent adhesion to concrete. The resulting reduction in moisture content and chloride levels lead to a minimization of the factors that initiate corrosion within steel reinforced concrete. The system, natural in appearance, is installed onto interior and exterior traffic areas and is available in both custom and standard colors. The two-component system is comprised of a styrene butadiene polymer modified liquid, a migratory corrosion inhibitor and a special aggregate blend. There is no need for sand broadcasting which is common with most traffic membranes. Furthermore, the inclusion of the aggregate provides a uniform and durable surface which adds longevity, abrasion and slip resistance to the installation. The STRONGCOTE SC-111 System is odorless, allowing professional installers to work within close proximity to the general public. After the installation of the 50 mil system and a topping, the structure may be opened to pedestrian traffic after a 24 hour cure.

WHERE TO USE:

- Restoration projects requiring a pedestrian grade breathable coating.
- As a vapor permeable system for installation on slab-on-grade, metal pan, split and sandwich slab construction.
- Structures composed of cast-in-place or precast concrete, structural steel or a combination of these elements.
- Pedestrian traffic coating for passenger platforms.
- Restoration projects that require a quick return to service within a wide range of environmental conditions.
- As a component of various customized Strongwall systems.
- Restoration projects of concrete and masonry pedestrian traffic areas included within residential, commercial, industrial, institutional and transportation facilities, such as apartment, condominium and office complexes, schools, colleges and universities, hotels, pharmaceutical, healthcare and hospital complexes, passenger platforms, correctional institutions, retail stores, stadiums and sports complexes, entertainment and theme parks.

TYPICAL APPLICATIONS:

Balcony decks
Walkways
Overpasses and concourses
Plaza decks
Sidewalks
Pool and rooftop decks
Stairs
Concrete bleachers
Rail platforms and beds
Greenhouse and woodshop floors
Damaged precast and cast-in-place components
Storage, equipment and utility rooms
Concrete equipment pads
Water storage units and tank covers
Bridge components

FEATURES AND BENEFITS:

Architectural enhancement
Natural in appearance
Excellent wet and dry traction
Transmits moisture vapor
Protection against carbonation and corrosion
UV resistant
Reduces chloride intrusion
Contains migratory corrosion inhibitor
Excellent adhesion
No blistering or sand broadcast
Quick return to service
Easily recoated if damaged
Odorless
LEED compliant

TYPICAL PHYSICAL PROPERTIES AT 75°F (24°C):

Typical physical properties and test results may differ based upon statistical variations of independent testing labs with respect to test methods, mixing methods and the equipment used. Project application methods, temperature, actual site and environmental conditions will all affect the cure rate, working life, recoat time and open to traffic project conditions.

Compressive Strength	ASTM C-109	2,350 psi
Tensile Strength	ASTM C-190	420 psi
Water Vapor Transmission	ASTM E-96 Procedure A	1.96 perms/ in ²
Rapid Chloride Permeability	ASTM C-1202	235 coulombs
Water Absorption	Weight gain of 4" coated concrete cube, 21-day immersion (CMCH)	< 2%
Impact Strength	MIL-D-3134 2 lb. steel ball dropped from 8' onto coated steel plate	No cracking or detachment
Flexural Strength	ASTM C-580 Modulus of Rupture	190 psi
Adhesion	ASTM C-882 Type 1	510 psi
Freeze-Thaw Resistance	ASTM C67 (50 cycles)	No scaling/peeling/flaking
Static Coefficient of Friction	ASTM C-1028	0.89 (dry) , 0.60 (wet)
Salt Spray Fog	ASTM B-117	1000 hours exposure produced no visible degradation
Hardness	ASTM D-2240	82 Shore A
Fire Resistance	UL-790	System complies as Class A
Flammable Properties	ASTM E-84 Steiner Tunnel Test	Flame spread - 4 Smoke density - 0
Resistance to Wind-Driven Rain	Fed. Spec. TT-C-558 (8 hrs) TT-P-0035 (24 hrs)	At 5" water pressure and 60 gal/hr. water flow, no water or dampness noted on back of test panels
Resistance to Hydrocarbon Substances	ASTM D-1308 Spot Open Test	No softening or attack after 21 days repeated re-application of gasoline, SAE-10 motor oil and jet fuel
Weathering	ASTM G-23 Method I Procedure, 60 cycles	No degradation visible
VOC g/L		3 g/L
Working Life		15-30 minutes
Recoat Time		6-8 hours or when fully cured
Open to Traffic		18-24 hours or when fully cured
Millage in Two Coats		50 mils
Standard Colors		24 standard colors, black and white
Custom Colors		Available upon request
CSI Division		07180

PACKAGING:

5 gallon pail of SC#3 Liquid
Two 55 pound bags of SC#3 Powder
Pigment pint

TOPPING SELECTIONS:

Topcoat selections enhance color uniformity, durability, cleanability and chemical resistance of the STRONGCOTE SC-111 System. Application of an additional clear film-forming or penetrating sealer will further enhance the stain resistance.

RESICOLOR Acrylic Sealer:

RESICOLOR will provide the system with continued breathability, increased UV stability and ease of cleaning. It is pigmented in the same selection as the coating and provides overall color uniformity. It is designed for interior and exterior service conditions and can be installed neat or as a sand coat.

ET-1100 Heavy-Duty Elastomeric Polyurea:

ET-1100 is a pre-pigmented aliphatic elastomeric polyurea designed for interior and exterior applications. This high solids and UV stable topping, increases the durability, chemical resistance and color stability of the system.

ET-1000 Epoxy:

ET-1000 is a two-component, pigmented epoxy. This topping is designed for interior applications and is not UV stable. ET-1000 resists most common chemical spillage. Aluminum oxide aggregate broadcast in varying grades will provide a slip resistant surface profile.

ET-1000-CR Chemical Resistant Epoxy:

ET-1000-CR is a 100% solids, two-component, pigmented NOVOLAC epoxy. It is designed for interior applications and is not UV stable. ET-1000-CR provides aggressive chemical and high temperature resistance. Aluminum oxide aggregate is broadcast for slip resistance. Surface profiles range from fine to coarse and will meet all project requirements.

SHELF LIFE:

One year from date of manufacture as long as containers remain unopened and material is stored in a tempered area at 65°F to 75°F.

LEED SUBMITTALS:

Available upon request. Credit points may be available under five different classifications.

SPECIFICATION ASSISTANCE:

Consult Strongwall Industries, Inc.

TESTING:

The technical data contained herein is the result of tests made in the manufacturer's laboratories or independent laboratories using small scale equipment, ideal conditions and following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

MATERIALS GUARANTEE:

Available upon request.

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