



# **STRONGCOTE SC-113**

## **Product Data Sheet**

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### **Breathable Vehicular Traffic Deck System**

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STRONGCOTE SC-113 is an extremely durable, vapor permeable, heavy-duty vehicular grade traffic deck system designed to prolong the in-service lifespan of the facility. It is formulated to protect parking decks, loading docks and structures with concentrated pedestrian traffic. STRONGCOTE protects against premature deterioration of the concrete substrate resulting from exposure to the elements. These conditions are often accelerated when moisture remains trapped. SC-113 is formulated to allow the transmission of vapor through the system while barring the intrusion of liquid water molecules. As a result, the internal moisture level is reduced leading to a reduction in chloride intrusion, carbonation and tensile stresses caused by corrosion of steel reinforcement. The two-component system is comprised of a styrene butadiene polymer modified liquid, a migratory corrosion inhibitor and an encapsulated proprietary aggregate. The formulation allows for unmatched skid and wear resistance, uniformity of the finished texture and longevity of the installation. STRONGCOTE is water-based, extremely low VOC and odorless, allowing professional installers to work within close proximity to the general public. After installation of the 90 mil system, the deck can be opened to vehicular traffic after a 24 hour cure. Installation of performance enhancing breathable and non-breathable toppings such as RESICOLOR, RESICLEAR and ET-1100 Clear are optional.

#### **WHERE TO USE:**

- Restoration projects requiring a vehicular grade breathable coating.
- Structures composed of cast-in-place or precast concrete, structural steel or a combination of these elements.
- As a vapor permeable system for installation on slab on-grade, metal pan, split and sandwich slab construction.
- Restoration projects that require a quick return to service within a wide range of environmental conditions.
- Projects that require protection against premature deterioration of a new or restored structure as part of the owner asset management plan.
- Restoration and protection projects of heavy-duty vehicular and pedestrian traffic areas included within residential, commercial, industrial, institutional and transportation facilities.

#### **TYPICAL APPLICATIONS:**

Parking decks  
Ramps  
Concrete bleachers  
Stadium and arena concourses  
Bridge components  
Bus depots  
Fire stations  
Plaza decks  
Utility areas  
Storage and equipment rooms  
Loading docks  
Helipads

#### **FEATURES AND BENEFITS:**

Architectural enhancement  
Transmits moisture vapor  
Protection from carbonation and corrosion  
UV resistant  
Reduces chloride intrusion  
Contains migratory corrosion inhibitor  
Excellent adhesion  
Excellent wet and dry traction  
No blistering or sand broadcast  
Rapid 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 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.

<b>Compressive Strength</b>	ASTM C-109	2,420 psi
<b>Tensile Strength</b>	ASTM C-190	445 psi
<b>Water Vapor Permeability</b>	ASTM E-96 Procedure A	1.96 perms/ in <sup>2</sup>
<b>Rapid Chloride Permeability</b>	ASTM C-1202	235 coulombs
<b>Water Absorption</b>	Weight gain of 4" coated concrete cube, 21-day immersion (CMCH)	< 2%
<b>Impact Strength</b>	MIL-D-3134 2 lb. steel ball dropped from 8' onto coated steel plate	No cracking or detachment
<b>Flexural Strength</b>	ASTM C-580 Modulus of Rupture	190 psi
<b>Adhesion</b>	ASTM C-882 Type 1	510 psi
<b>Freeze-Thaw Resistance</b>	ASTM C67 (50 cycles)	No scaling/peeling/flaking
<b>Static Coefficient of Friction</b>	ASTM C-1028	0.89 (dry) , 0.60 (wet)
<b>Salt Spray Fog</b>	ASTM B-117	1000 hours exposure produced no visible degradation
<b>Hardness</b>	ASTM D-2240	82 Shore A
<b>Fire Resistance</b>	UL-790	System complies as Class A
<b>Flammable Properties</b>	ASTM E-84 Steiner Tunnel Test	Flame spread - 4 Smoke density - 0
<b>Resistance to Wind-Driven Rain</b>	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
<b>Resistance to Hydrocarbon Substances</b>	ASTM D-1308 Spot Open Test Method	No softening or attack after 21 days: gasoline, SAE-10 motor oil and jet fuel
<b>Weathering</b>	ASTM G-23 Method I Procedure, 60 cycles	No degradation visible
<b>VOC g/L</b>		3 g/L
<b>Working Life</b>		15-30 minutes
<b>Recoat Time</b>		6 hours or when fully cured
<b>Open to Traffic</b>		18-24 hours or when fully cured
<b>Millage in Two Coats</b>		90 mils
<b>Standard Colors</b>		24 standard colors and black
<b>Custom Colors</b>		Available upon request
<b>CSI Division</b>		07180

**PACKAGING:**

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

**TOPPING:****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.

**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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