



STRONGWALL INDUSTRIES, INC.

STRONGCOTE SC-113

Vehicular Grade, Heavy-Duty Traffic Deck Membrane System Product Data Sheet

Product Description

SC-113 is a breathable coating systems designed for concrete decks exposed to vehicular traffic and heavy-duty pedestrian traffic. The system is comprised of a liquid polymer that contains a migratory corrosion inhibitor and special anti-slip aggregate designed for skid and wear resistance.

Because the material is water based it is zero VOC and odorless making it ideal for interior parking enclosures and garages. In addition, the products can be used on green concrete. A 7-10 day wait time is adequate in most cases.

Application of the SC-113 system can be normally achieved the same day as dry time between the two 45 mil coats occurs within a couple of hours. After installation of the standard 90-mil system vehicular traffic can traditionally be opened after overnight cure.

Aggregate is contained within the mixture, which translates into uniformity of the finish texture. Furthermore the encapsulated aggregate provides unmatched skid and wear resistance assuring long term wear ability of the membrane system.

Yield and Packaging

5-gallons of liquid packaged in a 6-gallon pail and two 55lbs bags of powder form one unit.

Unit yield: 180 sq. ft at 90 mils

Note: Minimum two coat required for the system

Shelf Life

One year.

Storage Conditions

Indoors, in a dry location, at temperatures not exceeding 90°F or lower than 35 ° F

Product Technical Information

Adhesion ASTM C-882, Type 1	515 psi
Static Coefficient of Friction ASTM C 1028.....	(Dry) 0.92 (Wet) 0.64
Flammable Properties ASTM E84	Flame spread - 4 Smoke Density - 0
Fire Resistance UL 790	Complies as Class A
Freeze-Thaw Resistance - 50 Cycles ...no scaling/peeling/flaking (Concrete cylinders immersed for 8 hrs in coated salt water solution followed by 16 hrs of freezing)	
Water Absorption Weight gain of 4" coated concrete cube after 21 days water immersion (CMCH)	<2%
Water Vapor Permeability ASTM E96	99.7 grams/sq. meter/24 hrs. or 14.3 perms
Weathering ASTM G23	No visible degradation (Method1/Procedure; 60 cycles)

Where to use

SC-113 should be applied as a protection system for elevated cast in place, split slab and precast concrete decks, metal pan construction as well as slab on grade conditions.

Advantages

1. Low water permeability, bars water and salt penetration.
2. High water vapor transmission - eliminates freeze/thaw damage, permits application on metal pan, split-slab and on-grade applications.
3. Contains migratory corrosion inhibitors suppresses rebar corrosion, even when the rebar has a shallow cover.
4. Bridges cracks at low temperatures.
5. Provides traction and safety, wet or dry.
6. Non-flammable Class A, zero VOC, non-toxic and odorless.
7. Impervious to ultra-violet light and automotive fluids.
8. Attractive, traffic-bearing membrane system
9. Available in a wide variety of colors.
10. LEED (Leadership in Energy and Environmental Design) Credit Points may be available under 5 different Classifications.
11. Does not contain chemicals targeted by Green Seal Standard GS-11 and LEED-CS as unacceptable

Overview of Application Procedures

- **Crack Treatment Component**
EM-100-N, a rubber emulsion, packaged in 5-gallon pails.
Mixing Ratio: Apply directly from pail
Yield: 800 lineal ft at 50 mils wet at 2" wide per 5-gal pail
- **Traffic-bearing Component**
Strongcote #3 Liquid, a latex vinyl copolymer, 5 gallons of liquid packaged in a 6-gallon pail and Strongcote #3 Powder, an aggregate catalyst, packaged in 55-pound bags includes migratory corrosion inhibitors.
Mixing Ratio: Two 55-lb bags of Strongcote #3 Powder and 5-gallons of Strongcote #3 Liquid form one unit.
Average Yield Per Unit: 360 sq. ft. @ 45 mils
This is always a two (2) 45mils coat system.
- **Optional Color Topping Component**
Apply to improve cleanability and to enhance color quality
Resicolor #4 or Resiclear #6 homopolymer toppings, packaged in 5-gallon pails.
Mixing Ratio: Apply directly from pail.
Yield: 1200-1500 sq. ft. per 5-gallon pail
Mixing: Stir for 30 seconds.
Application: Apply on a clean, dry surface, using a short nap roller.

SKID RESISTANCE and CLEANABILITY

In general the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

CHEMICAL RESISTANCE

See SWI Products Corp's., Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Strongwall Industries Inc. Proprietary Testing

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, SWI recommends testing the products or system in accordance with intended end use.

Cleaning

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, SWI recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

Cleaning Tools

Clean all tools with water immediately after use. If cured, mechanical means will be necessary.

First Aid

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact a physician. Keep container tightly closed. Keep out of reach of children, Not for internal consumption. For industrial use only.

Specification Assistance

Consult Strongwall Industries Incorporated for specification assistance and details. This consultation is highly recommended prior to specification.

Testing

The technical data contained herein is the result of tests made in manufacturer's laboratories or in independent laboratories using small scale equipment, 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.

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MATERIAL GUARANTEE

Strongwall Industries, Inc. (hereafter referred to as Strongwall) guarantees materials only for a period of 1 year from the date of installation, when applied to an approved substrate by an approved applicator in accordance with Strongwall's written specifications, application instructions, and Product Data Sheet. **STRONGWALL DISCLAIMS ANY OTHER GUARANTEE OR WARRANTY EXPRESS OR IMPLIED OF THE MATERIALS AND THIS GUARANTEE SHALL BE THE SOLE REMEDY OF ANY PERSON WHO PURCHASES OR USES THE MATERIALS.**

This guarantee applies only to material defects and will not apply in instances where failure has been caused by substrate defects including improper preparation, structural movement or settlement. In addition, it will not cover vandalism, accidents, acts of God, ordinary wear or any other damage not associated with normal usage. Where the materials have been applied over a previous coated surface, guarantee is limited to adhesion of the materials to previous coating and does not guarantee adhesion of previous coating to substrate.

This guarantee is valid only upon completion of the job, proper maintenance of all systems, payment in full to Strongwall and after the applicator and owner have affixed their signatures to the fully executed document to signify their acceptance of its terms and conditions and to release Strongwall of all claims and obligations other than those set forth in the above paragraph. A fully executed copy must be returned to Strongwall.

In the event of any kind of failure, the owner will advise the approved applicator in writing. The applicator will make an inspection to determine the cause of such failure. Should materials failure occur, Strongwall will provide replacement of materials that may be required to correct deficiencies. There are no express agreements other than those set forth in the above paragraphs.

Buyer understands and agrees that any and all warranties implied by the provisions of the Uniform Commercial Code are executed from this sale.