



STRONGWARN SWADA SYSTEM

System Description Sheet

Fluid Applied Detectable Warning

The STRONGWARN SWADA System is a detectable warning system which is dependable, long term and meets ADA Federal guidelines. SWADA is a breathable cast-in-place surface applied system that complies with both ADAAG and CSAS standards. It is designed to have exceptional compatibility with concrete and therefore the resulting thermal expansion and contraction resulting from weathering. SWADA maintains exceptional adhesion to the substrate while allowing trapped moisture vapor to escape and disperse. These performance properties are designed for exterior use and therefore prolong the in-service lifespan of the structure and the integrity of new and restored concrete. The system is suitable for all scopes including; new construction, factory precast concrete elements and retrofit applications. The installation does not require fasteners, adhesives or milling to undercut the concrete. The installation maintains excellent skid resistance and provides an anti-slip surface in both wet and dry conditions. STRONGWARN is sustainable, easy to install, cost effective and requires minimal maintenance. Transit authorities with architecturally finished installations nationwide utilize Strongwall products and systems extensively.

WHERE TO USE:

Mass transportation and transit facilities

- Transit platform edges: new construction
- Retrofit installations of existing platforms
- Installation onto precast concrete elements at the fabricator to be assembled on site
- On grade installations
- Downtown ADA revitalization projects
- Sidewalk curb cuts
- Bus shelters

SYSTEM FEATURES AND BENEFITS:

- Integral pigmentation of field and sealer.
- Excellent visual contrast
- Forms a continuous and seamless field
- Will not create tripping hazard
- Minimally disruptive to the substrate
- No milling
- Bonds directly to the platform
- Transmits moisture vapor
- Maintains excellent adhesion
- Skid resistant wet or dry
- Rapid installation
- Excellent UV resistance
- Easy to perform localized repairs
- Contain migratory corrosion inhibitor

TYPICAL PHYSICAL PROPERTIES AT 75°F (24°C): 82,111,RESI

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 rates, working life, recoat time and open to traffic project conditions throughout the installation.

Water Vapor Transmission	ASTM E-96	99.7 grams/ sq. meter/ 24 hours or 14.3 perms
Water Permeability	ASTM C-1202	System: 560 coulombs
Wear Resistance	ASTM C-501	Wear Index 14.5
Impact Resistance	MILD-3124	2 lb. steel ball dropped from 50' produced no adhesion failure
Slip Resistance	ASTM C-1028-89	Dry leather 0.88, dry Neolith 0.96, wet Neolith 0.93, reduction due to wetting 1.6%
Weathering Resistance	ASTM D-822	5,000 hours with ultraviolet light & water spray produced no effect
Compressive Strength	ASTM C-109	5,000 psi average
Shear Bond Strength	ASTM C-1042	1,860 psi @ 28 days
Flexural Strength	ASTM C-293	Minimum 1,900 psi
Fire Test	ASTM E-84	System Rated Class A
Environmental		Zero VOC, non-toxic, non-hazardous

SYSTEM PACKAGING:

The system is comprised of three components:

#82 TRUNCATED DOME: 5 gallon pail of #82 Liquid
Eight 32.5 lbs. bags of #82 Powder

#32 FIELD: 5 gallon pail of #32 Liquid
Two 55 lbs. bags of #32 Powder

#4 SEALER: 5 gallon pail

COMPLEMENTARY PRODUCTS AND SYSTEMS:

Designed to restore extrinsic structures that support the use of the transportation facility.

- **Structural Repair Mortars:**

STRONGCRETE AND STRONGPATCH structural repair mortars are designed to restore the substrate, re-profile new and existing concrete for pitch and to become compliant, fill previously milled areas and restore all other surface deficiencies prior to installation of Strongwall products and systems.

- **Breathable Coatings:**

The STRONGCOTE Traffic Deck System is installed as a platform coating or directly on concrete pedestrian traffic areas, stairs, concourses, raised crosswalks, raised intersections, borders of medians and islands, as well as, sidewalks included with in the facility. Architecturally, chemically and visually these natural in appearance breathable systems complement the STRONGWARN SWADA installation in applied thickness and texture while achieving the same anti-slip surface profile wet or dry.

ROCKBOND will bond tenaciously to all vertical applications including walls, tunnels and overpasses.

SHELF LIFE:

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

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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