

## TECHNICAL DATA SHEET

### DESCRIPTION

Sure Seal Traffic Deck Coating, a 100% solids, low modulus, moisture tolerant, low viscosity blend of high strength epoxy - urethane polymers and specialty blended aggregates combined to produce a long lasting, durable, skid resistant, parking deck surface. Sure Seal Traffic Deck Coating is one of the most durable traffic skid resistant membrane options for parking decks available today.

### USE

Sure Seal Traffic Coating is designed to waterproof and resurface the entire parking deck horizontal substrate. Application suitability include the following: elevated interior and exposed decks, ramps, turning circles, pedestrian lanes and helixes. Sure Seal Traffic Deck Coating can also be used as a binder for producing a high strength epoxy mortar to repair concrete decks prior to an overlay installation.

### FEATURES

- High resistance to wear and abrasion for long lasting performance.
- Chemical resistant: protects against diesel, gasoline, anti-freeze, hydraulic fluids, chlorides (deicing salts and battery acids).
- Skid Resistant
- V.O.C. compliant
- The system can be renewed rather than replaced.

### PROPERTIES

Meets Specification:

ASTM C881, Type III, Grade 1, Classes B & C

Mix ratio – 1:1, by volume

Gel time – ASTM C881

60 gm sample @ 73°F (23°C): minimum 15 min.

Viscosity minimum 1,500 cps  
(1.5 Pascal-second) at 77° F (25° C)

Tensile Strength - ASTM D638:  
>3,000 psi (20.7 MPa) 3 days

Compressive Strength - ASTM C109:  
minimum 5,000 psi (34.4 MPa) in 24 hours

Bond Strength - ASTM C1583: >250 PSI, 100% failure in concrete

Elongation at Break – ASTM D638: minimum 30.0%

Water Absorption – ASTM D570: 0.20%

Thermal Compatibility – Passes Test

AASHTO T-277 Chloride Ion Permeability 0.9 Coulombs

### Note:

As a general guide, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F (24°C) and double for each 10° to 15° decrease in temperature below 75°F (24°C).

### VOC

Sure Seal Traffic Deck Coating has a VOC content of 0 g/L and is compliant with all Canadian and U.S. VOC

regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

### Estimating Guide

Broadcast Overlays:

Course #1: Epoxy rate: 40 ft<sup>2</sup>/gal. (1 L/m<sup>2</sup>)

Aggregate rate: 1-1.5 lb/ft<sup>2</sup>, (4.88-7.32 kg/m<sup>2</sup>).

Course #2: Epoxy rate: 20 ft<sup>2</sup>/gal. (2 L/m<sup>2</sup>)

Aggregate rate: 1-1.5 lb/ft<sup>2</sup>, (4.88-7.32 kg/m<sup>2</sup>).

Epoxy Mortar: 2 gal/ (7.6 L) epoxy mixed with 10 gal (37.8 L) of dry sand yields approximately 0.94ft<sup>3</sup>

### Packaging

PRODUCT CODE	PACKAGE	SIZE	
		GALLONS	LITERS
146179	Unit	10	37.85
146180	Unit	110	416.40
146181	Unit	500	1892.71

### Note:

When faster turn around is required, the use of Bridge Seal Accelerator can reduce the set time of Sure Seal Traffic Deck Coating between 30-60% based on ambient conditions, material temperatures, and substrate conditions.

### STORAGE

The material should be stored between 40°-95°F (5°-35°C). Shelf life of properly stored, unopened containers is 24 months

### Mock Up:

It is recommended to install a test section to assure acceptance of installation and appearance prior to the start of the project.

### Surface Preparation:

Surface to be bonded must be clean and sound. Remove oil, dirt, grease, laitance, curing compounds and other foreign matter that may cause a problem with bond. Abrasive blast cleaning and mechanical removal methods are recommended. Remove all standing water and dust with clean, oil free, compressed air prior to installation.

Surface should be a concrete surface profile (CSP) of 5-9 according to ICRI Technical Guideline no 310.2R-2013, "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and concrete Repair". Surface and ambient temperature must be a minimum of 50°F (10°C).

Repair all delaminations, potholes and cracks using the Sure Seal Traffic Deck Coating or other Dayton Superior approved repair material. Unitex Pro-Poxy 45 (Unitex by Dayton Superior) may be used as a healer/sealer prior to installing Sure Seal Traffic Deck Coating on decks exhibiting small cracks over a large area.

**TECHNICAL DATA SHEET**

For repair/sealing of larger cracks, spalls or potholes, mix the Sure Seal Traffic Deck Coating with dry sand to create a mortar or contact Dayton Superior for additional product recommendations.

**Mixing:**

Condition material to 65°-85°F (18°-29°C) for ease of mixing and optimum flow prior to using. Premix each component then place 1 part by volume of Component A and 1 part by volume of component B into a clean pail and mix for three minutes with a low speed drill using a Jiffy mixer or paddle until uniformly blended. Mix only what can be used within the pot life

**Test before placement:**

There shall be no visible moisture present on the surface of the concrete at the time of application of the polymer concrete overlay. If surface dryness is questionable an 18 inch x 18 inch 4 mil polyethylene sheet must be taped to the deck for at least two hours to determine if moisture is present. Moisture will be identified by condensation on the sheet. The procedures of the test method are specified in ASTM D 4236.

When applying Pro Poxyl Type III D.O.T. over cementitious patches less than 28 days contact Dayton Superior Technical service for recommendations.

**Placement:**

Application: Mix the epoxy as previously directed and apply course #1, spreading the neat Sure Seal Traffic Deck Coating at a coverage rate of 40 ft<sup>2</sup>/gal. (1 m<sup>2</sup>/L) using a 3/16 notched squeegee. Immediately broadcast select aggregate to refusal (typically 1-1.5 lb/ft<sup>2</sup>, 4.88-7.32 kg/m<sup>2</sup>). The aggregate should have a hardness of six or higher on the Mohs hardness scale (unless otherwise approved). Aggregate shall be angular, (free of dirt, clay and all impurities) shall consist of natural silica sand, basalt, or other nonfriable aggregate, and shall contain less than 0.2% moisture when tested in accordance with ASTM C566. After the initial cure of the first course, remove all excess aggregate and apply course #2, spreading the neat Sure Seal Traffic Deck Coating at a coverage rate of 20 ft<sup>2</sup>/gal. (0.5 m<sup>2</sup>/L), once again broadcasting the select aggregate to the point of rejection.

After allowing the system to cure [2.5 hrs for course #1 and 4 hrs for course #2 @ 70°F (22°C)] and after all the aggregate has been removed it can be opened up to traffic.

Colder temperatures will slow the setting time while warmer temperatures will accelerate the set time as follows:

@ 60°-65°F (16-18°C) set time for course #1 would be 4 hrs and 6-5 hrs for course #2

@ 80°-84°F (27-29°C) set time for course #1 would be 1.5 hrs and 3 hrs for course #2

**CLEAN UP**

Tools and Equipment: Clean before the epoxy sets up using Xylene or a Dayton Superior Citrus Cleaner.

**LIMITATIONS****FOR PROFESSIONAL USE ONLY**

Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions. Sure Seal Traffic Deck Coating is not intended to provide resistance to reflective cracking.

Always test a small amount of Sure Seal Traffic Deck Coating to insure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation.

Concrete surface must be less than 4% moisture content when tested with a moisture pin meter. On wood and other surfaces contact Technical Service for more information.

Surface and ambient temperature must be a minimum of 50°F (10°C).

Do not thin with any solvents.

Do not place Sure Seal Traffic Deck Coating on magnesium phosphate cement concrete

**PRECAUTIONS**

READ SDS PRIOR TO USING PRODUCT

Component A – Irritant

Component B – Corrosive

Product is a strong sensitizer

Use with adequate ventilation

Wear protective clothing, gloves and eye protection

(Goggles, Safety Glasses and/or Face Shield)

Keep out of the reach of children

Do not take internally

In case of ingestion, seek medical help immediately

May cause skin irritation upon contact, especially prolonged or repeated.

If skin contact occurs, wash immediately with soap and water and seek medical help as needed

If eye contact occurs, flush immediately with clean water and seek medical help as needed

Dispose of waste material in accordance with federal, state and local requirements

Cured Epoxy Resins are Innocuous

**MANUFACTURER**

Dayton Superior Corporation

1125 Byers Road

Miamisburg, OH 45342

Customer Service: 888-977-9600

Technical Services: 877-266-7732

Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

## TECHNICAL DATA SHEET

### WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.