



**BUILDING  
STRENGTH™**

**PARKING GARAGE  
CONCRETE CONSTRUCTION  
SOLUTIONS**

ENDURANCE TRAFFIC DECK™  
SYSTEM

**BROCHURE**

 **DAYTON®  
SUPERIOR**

# REPAIR. IMPROVE. PROTECT.

Fight Damaging Forces and Gain Longer Life with Dayton Superior's Proven Products and Solutions that Repair, Improve and Protect Your Investment.



## APPLICATORS & CONTRACTORS

Complete your projects faster and add value from start-to-finish with Dayton Superior's comprehensive products and services:

- Quick turnaround means more completed projects annually
- Fewer call backs
- Lower schedule risks
- Higher billings with no additional labor cost
- Reduce life cycle cost over conventional systems



## DESIGNERS & ENGINEERS

Dayton Superior is a preferred solutions partner supporting design professionals, engineers and owners around the world:

- Differentiated solutions that can be branded based on your own aggregate blend
- 20 years proven performance
- Customizable warranties available to meet your specific project requirements
- 3rd party letters of evaluation by independent engineers are available

## RELATED BRANDS & INDUSTRY ASSOCIATIONS



**BUILDING  
STRENGTH™**

# PARKING DECK SOLUTIONS

## YOUR ADVANTAGE:

By driving continuous innovation, Dayton Superior offers parking deck solutions engineered with the flexibility to expand and contract with concrete in all weather conditions, while also being easy and efficient to use. The complete product and service portfolio for concrete parking deck solutions includes:

- Endurance Traffic Deck™ System
- Reinforcing Steel Splicing
- Rebar & Supports
- Comprehensive Engineering Support
- Forming Solutions
- Chemicals: Liquids, Powders & Polymer Technologies
- Dayton Shear Resistance
- Pre-Packaged Dowel Bar Keyway Strip
- Finishing Solutions
- Precast Lifting Systems
- Prestressed Strand Restraining Devices
- Structural Embeds



CareSource PMI Parking Garage  
Dayton, Ohio



Purdue University Parking Garage  
West Lafayette, Indiana



Clackamas Town Center Parking Garage  
Portland, Oregon

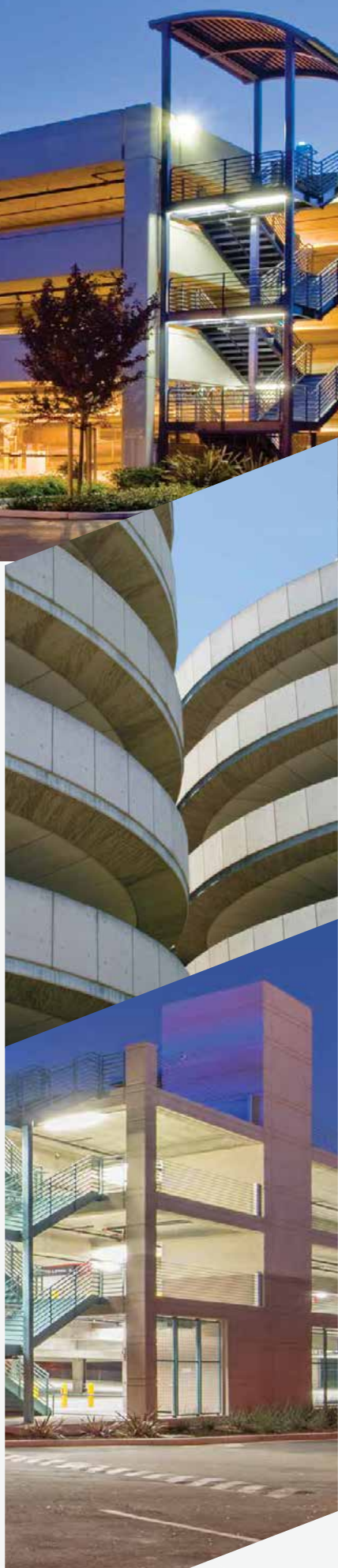


Marlins Stadium Parking Garage  
Miami, Florida

## Endurance Traffic Deck™

The Endurance Traffic Deck™ System is a complete selection of high quality construction chemicals designed for use on new and existing parking deck structures, ensuring optimum concrete durability and maximum service life.

# THE SYSTEM

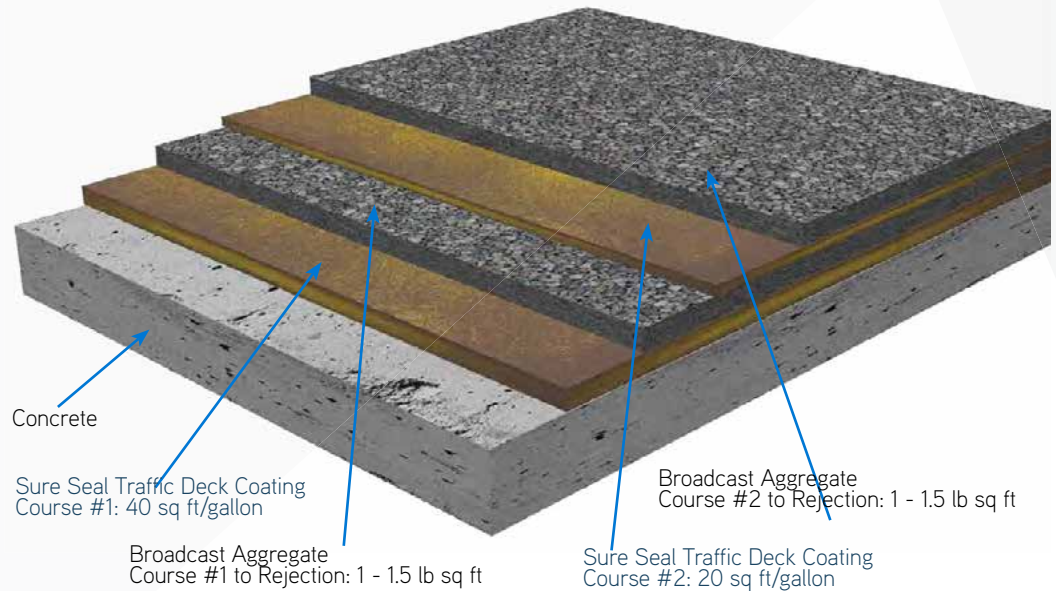


## 1 SURE SEAL™ TRAFFIC DECK COATING

by Dayton Superior®, powered by Unitex®

A blend of high strength epoxy/urethane polymers and specially blended aggregates combined to produce a long lasting, skid resistant and durable parking deck surface for owners worldwide.

- 100% solids epoxy/urethane system
- Provides new wearing surface that prolongs deck life +5 to 15 years
- System Warranty: Consult your Dayton Superior representative for details
- Impervious to water and chlorides to protect concrete and rebar
- 20+ years proven performance and traffic durability, with extensive use across the USA



### HIGH PERFORMANCE - QUICK TURNAROUND

- Improves new & existing concrete
- Extremely high compressive and bond strength
- Positively textured with the strongest aggregates
- Increases slip and abrasion resistance
- Renewable & sustainable
- Repair can be made using HD50 and overlay can be applied in 4 hrs
- Less downtime for installation — as little as a one-day turnaround
- 3-Part Guide Specification is available

### PROTECT NEW CONCRETE

- Moisture damage, corrosive chlorides and freeze-thaw protection
- Self-priming for quick application, open to traffic or recoat in 2.5 hours
- System includes curing compounds, silane based penetrating sealers, epoxy healer sealers and non-skid deck coatings

### RESURFACE OLD CONCRETE

- Stop deterioration from chlorides, freeze-thaw and moisture infiltration
- Provides new, aesthetically pleasing and durable wear surface
- System includes cementitious and polymer-modified materials for structural, surface and high traffic conditions with minimal downtime

# REPAIR

## STRUCTURAL

Structural repair materials are formulated to transfer structural loads into and through the repair, typically, in deeper repairs where the reinforcing steel is exposed. Primary material considerations are matched modulus to the parent concrete, low shrinkage and high bond strength.

- 2** [Civil/Structural FPX](#)  
Flowable structural repair mortar extended with aggregate. Corrosion inhibitor protects reinforcing steel.
- 3** [Civil/Structural VO](#)  
Vertical/overhead structural repair mortar modified with silica fume and micro fibers that can be pumped, sprayed or trowel applied. Enhanced with corrosion inhibitor for protection of reinforcing steel.
- 4** [HD 25 VO](#)  
Single component, high strength mortar containing Portland cement, special polymers and accelerators to provide faster strength gain and set time.

## SURFACE

Surface materials are generally used on repairs where reinforcing steel is not exposed. Low shrinkage, bond strength, aesthetics and user friendliness are key.

- 5** [Perma Patch™ FP](#)  
Flowable, self-consolidating repair mortar for horizontal, form and pour, or form and pump applications.
- 6** [Architectural Finish™](#)  
Vertical and overhead reprofiling mortar designed for trowel applications to eliminate small concrete surface blemishes, rough areas, bug holes, form marks on poured walls, tilt-up and precast.



## PERFORMANCE

Formulated for performance and peace of mind.

- Traffic Deck Overlays
- High Performance Concrete Curing Compounds
- Concrete Repair Materials
- Waterproofing Products

## PROTECTION

Formulated to protect your concrete investment.

- Corrosion Protection
- VOC and LEED Compliant
- Sustainable



## TRAFFIC

Traffic repair materials are designed to quickly reinforce horizontal distressed concrete subjected to heavy repeated loads. Important material considerations are high early strengths, low shrinkage, abrasion and impact resistance.

### 7 HD 50™

High early strength, fiber reinforced, polymer modified horizontal repair mortar used for highways, bridge decks, parking structures, airport runways, freezer rooms, industrial/warehouse floors, loading docks and joint repair.

### 8 Rapid Resin Repair™

100% solids, low-modulus, three-component, non-shrinking epoxy/urethane hybrid that is combined with specially graded aggregates for achieving rapid turnaround in all weather conditions. Material cures at a temperature as low as -15°F (-29°C). Ideal for patching bridge decks, roadways, parking structures, warehouse floors and freezers.

### 9 Sure Patch™

Multi-Purpose, high strength, non-shrink epoxy patching mortar. Ideal for parking deck and bridge deck repair as well as pre-patching prior to an overlay system.

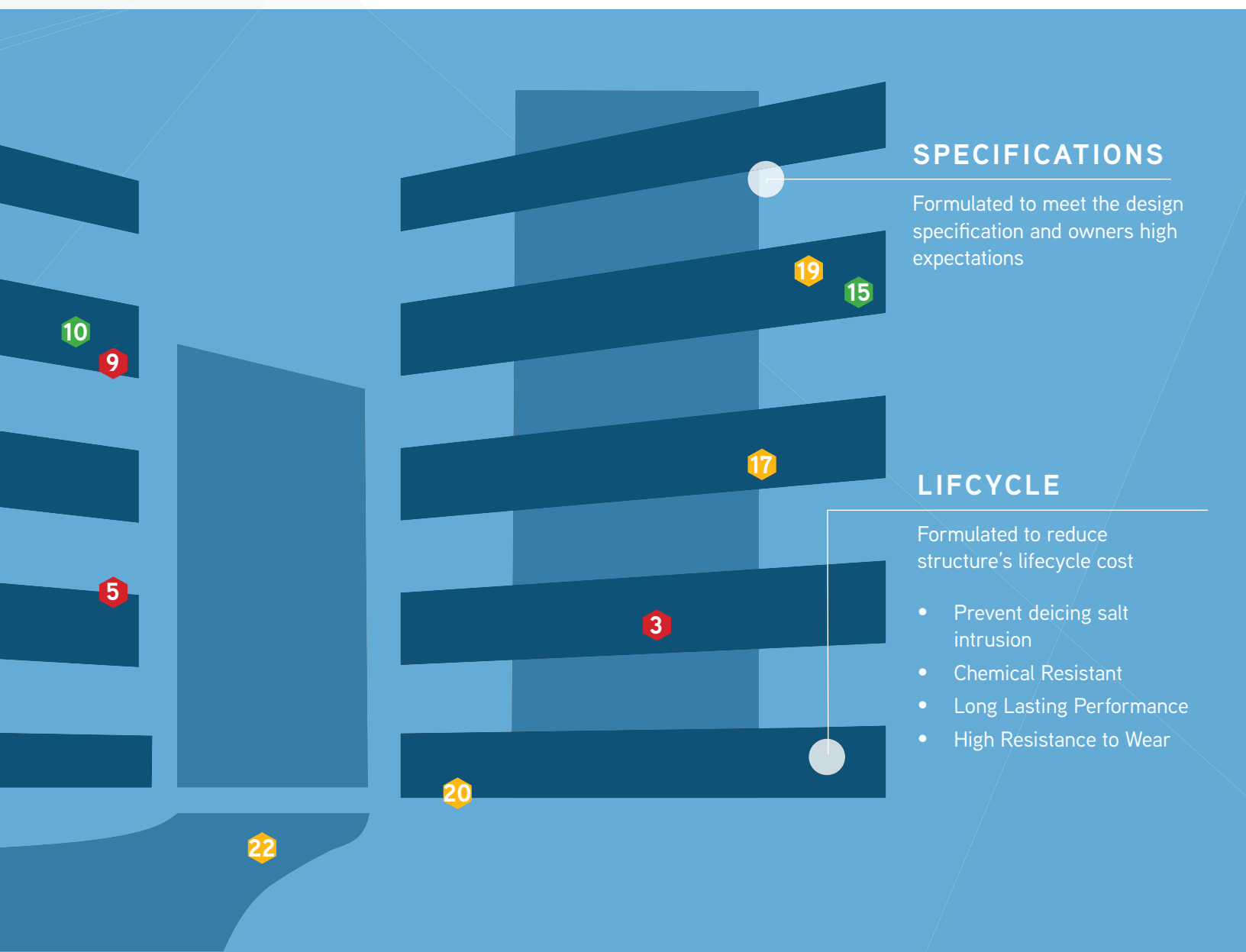
## SPECIFICATIONS

Formulated to meet the design specification and owners high expectations

## LIFECYCLE

Formulated to reduce structure's lifecycle cost

- Prevent deicing salt intrusion
- Chemical Resistant
- Long Lasting Performance
- High Resistance to Wear



# IMPROVE

# PROTECT

## INJECTION - HEALER SEALER

- 10** [Sure Inject™ J56](#)  
100% solids, high modulus, moisture tolerant, low viscosity epoxy adhesive for gravity feed or pressure injection of cracks.
- 11** [Sure Inject™ J56SLV](#)  
100% solids, high modulus, moisture tolerant, very low viscosity adhesive for gravity feed or pressure injection of cracks.

## ANCHORING

- 12** [Sure Anchor™ I J51](#)  
Ideal structural adhesive and anchoring gel epoxy that is moisture tolerant with fast strength gain.
- 13** [All Weather Epoxy™ J51AW](#)  
Epoxy acrylate hybrid anchoring gel can be applied to -15°F.

## BONDING

- 14** [Sure Bond™ J58](#)  
100% solids, two component, high modulus, medium viscosity, moisture tolerant structural epoxy adhesive that meets the requirements of ASTM C-881 and AASHTO M-235.
- 15** [Sure Bond™ J58LPL](#)  
100% solids, high modulus, medium viscosity, moisture tolerant, long open time structural epoxy adhesive used for bonding fresh concrete or repair mortars to hardened concrete.

## REBAR CORROSION

- 16** [Perma Prime™ 3C](#)  
Three component epoxy-modified cementitious bonding agent and rebar coating to protect against corrosion.

## WATER/CHLORIDE INTRUSION

- 17** [Sure Seal™ LV/LM](#)  
100% solids, low viscosity, low modulus epoxy healer/sealer with rapid cure time. Ideal for sealing cracks on concrete bridge decks and parking deck slabs to prevent the ingress of chlorides and moisture from corroding reinforcing steel.
- 18** [Weather Worker™ 10% J26WB](#)  
Ready-to-use, water based emulsion of siloxane that penetrates into concrete or masonry to provide long term weatherproofing protection.
- 19** [Weather Worker™ 40% J29](#)  
Penetrating silane water repellents to be used vertically or horizontally on virtually all concrete structures to aid in the prevention of spalling and scaling caused by freeze-thaw cycles. Inhibits attack by deicing salts and chloride ions.
- 20** [Waterstop™](#)  
Rapid setting hydraulic cement formulated to set instantly for plugging and stopping active water leaks.
- 21** [Pro-Poxy™ 45](#)  
100% solids, low modulus, highly penetrating, epoxy polymer. Can be used as a pretreatment healer sealer prior to overlay.
- 22** [Pentra-Hard® EDH](#)  
Anti-scale treatment to protect walkways, driveways & other concrete surfaces from freeze-thaw and moisture damage.

“Because we used the Civil/Structural FPX, a pre-engineered product, our five man crew saved approximately 120 hours of labor which translates into a savings of \$9,000.” - Chris Ellis, PE. Project Manager. Vortex.



Dayton Superior offers an unrivaled product solutions portfolio, built from a passion for innovation. Unequaled value-added services provide contractors the advantage of having the company's full breadth of resources and team of professionals available at every construction stage.

888-977-9600  
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**DAYTON**<sup>®</sup>  
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