

## STORIES OF STRENGTH

### EdenCrete® in Professional Sports Facilities



As professional sports facilities grow older, much of the original concrete is deteriorating. Differential settlement combined with years of shrinkage and structural loading cause unsafe and unsightly cracking. Concrete surfaces are abraded from supply vehicle traffic and general use, potentially cracked from alkali silica reaction or scaled from deicer chemicals. Engineers specify **EdenCrete®** as a vital component in the concrete to combat these chronic issues and improve durability.

In fresh concrete, **EdenCrete®** improves the paste to help with placement, pumping (ready-mix and shotcrete), and to accelerate finishing operations. Improvements to hardened concrete include durability, strength, permeability, resistance to abrasion and cracking, and scaling from deicer chemicals; there is also a cost savings as compared to alternative mixes. **EdenCrete®** provides a safer and more environmentally friendly job-site. **Pour In The Strength®** with **EdenCrete®** on your next project.



#### Interior Corridor (2020 ongoing)

- 3" overlay repair on a drainage system and suspended deck
- **EdenCrete®** Dosage Rate = 0.5 gal/yd<sup>3</sup>; 10 yd<sup>3</sup> slab
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash
- STRUX fiber dosage reduced from 6.0 to 3.0 lbs/yd<sup>3</sup>

#### Perimeter Facilities (June 2019)

- 5-6" full-depth slab repair
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 300+ yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash
- STRUX fibers were removed from the mix
- No sub-base preparation, No wire mesh
- **EdenCrete®** mix was less expensive than the STRUX fiber mix



#### Interior Corridor (2020 ongoing)

- 4" overlay repair on a suspended deck
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 30 yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash
- STRUX fiber dosage reduced from 6.0 to 3.0 lbs/yd<sup>3</sup>
- Xypex waterproofing reduced from 2% to 1%

#### Access for Ticket Turnstile (June 2020)

- 5-6" full-depth slab
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 42 yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash
- Skid-Steer traffic commenced after 24-hours without damage



## Center for Health, Nutrition, & Physical Therapy [May 2020]

- Shotcrete containing **EdenCrete®** utilized to line the underground corridor & stabilize adjacent walls.
- **EdenCrete®** Dosage Rate = 0.5 gal/yd<sup>3</sup>; 60 yd<sup>3</sup>
- Shotcrete mixes with **EdenCrete®** have a creamier paste, move more easily through the hose, & are pumped using lower hydraulic pressure which improves stacking
- Reduced dust & waste from rebound improves jobsite conditions for personnel & equipment



## Exterior Corridor [2020 ongoing]



- 5-6" full-depth slab
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 240+ yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash
- STRUX fiber dosage reduced 50% from 6.0 to 3.0 lbs/yd<sup>3</sup>
- No sub-base preparation, No wire mesh

## Secure Storage Unit [July 2020]

- 6" full-depth slab
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 20 yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash



## Steel Bollard Security Fence [June 2020]

- 6" full-depth slab
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 95 yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash

## Freight Access Ramp [August 2020]

- 8" thick exterior ramp on grade using 5000-psi structural concrete
- **EdenCrete®** Dosage Rate = 1.0 gal/yd<sup>3</sup>; 35 yd<sup>3</sup>
- 5000-psi structural concrete, Air-Entrained, 20% Class F Fly Ash

