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)

- 76mm overlay repair on a drainage system and suspended deck
- **EdenCrete®** Dosage Rate = 2.5L/m³; 7.65m³ slab
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash
- Synthetic macro fibre reinforcement dosage reduced from 3.6kg/m³ to 1.8kg/m³

Perimeter Facilities (June 2019)

- 120mm - 150mm full-depth slab repair
- **EdenCrete®** Dosage Rate = 5L/m³; >230m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash
- Synthetic macro fibre reinforcement was removed from the mix
- No sub-base preparation, no wire mesh
- **EdenCrete®** mix was less expensive than the synthetic macro fibre reinforcement mix





Interior Corridor (2020 ongoing)

- 100mm overlay repair on a suspended deck
- **EdenCrete®** Dosage Rate = 5L/m³; 23m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash
- Synthetic macro fibre reinforcement dosage reduced from 3.6kg/m³ to 1.8kg/m³
- Additives waterproofing reduced from 2% to 1%

Access for Ticket Turnstile (June 2020)

- 120mm - 150mm full-depth slab
- **EdenCrete®** Dosage Rate = 5L/m³; 32m³
- 34.5MPa 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 = 2.5L/m³; 46m³
- Shotcrete mixes with **EdenCrete®** have a creamier paste, move more easily through the hose, and are pumped using lower hydraulic pressure which improves stacking.
- Reduced dust & waste from rebound improves jobsite conditions for personnel & equipment.



Exterior Corridor **(2020 ongoing)**

- 120mm - 150mm full-depth slab
- **EdenCrete®** Dosage Rate = 5L/m³; 184m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash
- Synthetic macro fibre reinforcement dosage reduced 50% from 3.5kg/m³ to 1.8kg/m³
- No sub-base preparation, no wire mesh

Secure Storage Unit **(July 2020)**

- 150mm full-depth slab
- **EdenCrete®** Dosage Rate = 5L/m³; 15m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash





Steel Bollard Security Fence **(June 2020)**

- 150mm full-depth slab
- **EdenCrete®** Dosage Rate = 5L/m³; 73m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash

Freight Access Ramp **(August 2020)**

- 200mm thick exterior ramp on grade using 34.5MPa structural concrete
- **EdenCrete®** Dosage Rate = 5L/m³; 27m³
- 34.5MPa structural concrete, Air-Entrained, 20% Class F Fly Ash



AU 1300 737 787 edencrete.com.au Parchem Construction Supplies Pty Ltd 1956 Dandenong Rd, Clayton VIC 3168
NZ 0800 657 156 concreteplus.co.nz Concrete Plus Ltd 23 Watts Road, Sockburn NZ 8042

EdenCrete®

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