

## STORIES OF STRENGTH

### Shotcrete Applications



## EdenCrete® is used by contractors to improve both fresh and hardened properties of shotcrete.

In fresh shotcrete, **EdenCrete®** mixes glide smoothly through the pump, hose, and nozzle without segregating, sand packing, or clogging lines. The improved rheology of the mix adheres and carves better, reducing dust and waste from rebound. Hydraulic pump pressure can be reduced to save fuel and wear and tear on the equipment. The reduced dust allows for other trades and multiple nozzle-men to operate within the same enclosed area due to improved air quality and job site conditions. In hardened shotcrete, **EdenCrete®** improves durability, crack-resistance, and in-service performance as compared to traditional shotcrete.

### Colorado Pools (January 2019)

- Residential swimming pool
- **EdenCrete®** Dosage Rate = 1.25L/m<sup>3</sup>; 46m<sup>3</sup>
- 28MPa shotcrete, 15% Class F Fly Ash



WITHOUT EdenCrete®



WITH EdenCrete®



### Thorcon Colorado DOT Central-70 Project (2018 - 2021)

- Reinforcement of bridge piers and ground-anchored walls
- **EdenCrete®** Dosage Rate = 1.25L/m<sup>3</sup>; 4590m<sup>3</sup>
- 28MPa shotcrete, Air-entrained, 15% Class F Fly Ash

### Front Range Aqua Tech The Ridge Pinehurst Retirement Community (December 2018)

- Commercial swimming pool
- **EdenCrete®** Dosage Rate = 1.25L/m<sup>3</sup>; 115m<sup>3</sup>
- 28MPa shotcrete, 15% Class F Fly Ash





## Thorcon Shotcrete and Shoring Pond on Private Ranch [January 2019]

- Reinforcement of ground-anchored walls
- **EdenCrete**<sup>®</sup> Dosage Rate = 1.25L/m<sup>3</sup>; 115m<sup>3</sup>
- 28MPa shotcrete, Air-entrained, 15% Class F Fly Ash
- **EdenCrete**<sup>®</sup> enhanced their ability to carve intricate designs

## Summit GeoStructures City of Black Hawk [August 2019]

- Road-cut stability to inhibit rock-slides and avalanches
- **EdenCrete**<sup>®</sup> Dosage Rate = 1.25L/m<sup>3</sup>; 459m<sup>3</sup>
- 28MPa shotcrete, Air-entrained, 15% Class F Fly Ash



## Summit GeoStructures City of Spanish Fork, UT [April 2020]

- Water-slide feature for an All-Abilities Park
- **EdenCrete**<sup>®</sup> Dosage Rate = 2.5L/m<sup>3</sup>; 122m<sup>3</sup>
- 28MPa shotcrete, Air-entrained, 15% Class F Fly Ash

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

- Interior lining for the underground corridor and stabilization of ground-anchored walls
- **EdenCrete**<sup>®</sup> Dosage Rate = 2.5L/m<sup>3</sup>; 46m<sup>3</sup>
- Shotcrete mixes with **EdenCrete**<sup>®</sup> have a creamier paste, move more easily through the hose, and are pumped using lower hydraulic pressure which improves stacking.
- Reduced dust and waste from rebound improves jobsite conditions for personnel and equipment.

