



EUCLID CHEMICAL

PROJECT PROFILE

**3D CONCRETE INC.
FLOORS & PAVEMENTS**



PROJECT DATA

Location – Reno, NV
Application – Fiber Reinforcement & Low Shrinkage Concrete
General Contractor – Q & D Construction
Ready Mix Producer – 3D Concrete Inc.

PRODUCTS FEATURED

- TUF STRAND™ SF**
Synthetic Macrofiber
- EUCON™ SRA FLOOR**
Shrinkage Reducing Admixture
- CONEX®**
Shrinkage Compensating Admixture
- PLASTOL™ 6400**
High Range Water Reducer - Superplasticizer
- EUCON™ X15**
Mid Range Water Reducing Admixture
- EUCON™ 37**
High Range Water Reducer - Superplasticizer
- EUCON™ AIR MAC 12**
Air Entraining Agent For Concrete

SCOPE OF PROJECT

Use of TUF-STRAND SF macro-synthetic fibers and high-performance concrete admixtures for construction of pavements and floors at 3D Concrete Inc.'s main office near Reno, NV

PROJECT SUMMARY

3D Concrete Inc. is a producer of ready mix concrete in northern Nevada. In 2017, they built their main office and plant in Reno, NV. Both the interior slabs and exterior pavement used TUF-STRAND SF synthetic macrofibers as the sole reinforcement. The exterior paving, which is exposed to mixer truck traffic, has a total area of 60,000 ft² (18,288 m²) and is reinforced with 5 lb/yd³ (2.3 kg/m³) of TUF-STRAND SF with a joint spacing of 10 ft (3 m). The slab-on-ground for the repair shop used a combination of TUF-STRAND SF at 5 lb/yd³ (2.3 kg/m³) and CONEX for shrinkage compensation, allowing for an extended joint spacing of 30 ft (9 m). The interior slab for the office area is polished and stained decorative concrete, which also included TUF-STRAND SF and EUCON SRA FLOOR for a low shrinkage concrete.