



EUCLID CHEMICAL

PROJECT PROFILE

EUCLID CHEMICAL TECHNICAL CENTER PARKING



PROJECT DATA

Application – Fiber Reinforced Concrete Pavement

Location – Cleveland, OH

Architect/Engineer – Owner: Euclid Chemical

Contractor – ML Scott and Sons

Concrete Producer – Rockport Ready Mix

PRODUCTS FEATURED

TUF-STRAND™ SF

Macro-Synthetic Fibers

EUCON™ SRA

Shrinkage Reducing Admixture

CONEX®

Shrinkage Compensating Admixture

KUREZ™ DR VOX®

Dissipating Curing Compound

SCOPE OF PROJECT

- Replace deteriorated asphalt parking lot
- Optimize shrinkage and utilize FRC in exterior pavement design
- Extend joints and monitor long term durability

PROJECT SUMMARY

PROBLEM: In 2015, The Euclid Chemical Company was in need to replace a deteriorated asphalt parking lot, subjected to repetitive heavy truck loads, adjacent to their Technical Training Center. Originally proposed as a conventional, unreinforced concrete pavement, Euclid's Technical and Marketing departments used the opportunity to propose and construct a modified fiber reinforced concrete pavement utilizing low shrinkage concrete and extended joint spacing.

SOLUTION: Four different sections of the paving area used different combinations of TUF-STRAND SF fiber reinforcement, Eucon SRA shrinkage reducing admixture and Conex shrinkage compensating admixture. Joint spacing was expanded over conventional pavement construction and joint widths are currently being monitored to observe if any expansion occurs. The crack-free pavement has shown no signs of distress and laboratory samples will continue to be evaluated to measure long term performance.