



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.