



EUCLID CHEMICAL

PROJECT PROFILE

SOUTH CAROLINA INTERSTATE 385



PROJECT DATA

Location – Laurens County, SC

Project Owner – Federal Highway Administration and South Carolina DOT

Concrete Contractor/Supplier – McCarthy Improvement

PRODUCTS FEATURED

EUCON LW

Water reducing admixture

EUCON LR

Set retarding admixture

EUCON AIR 40

Air entraining admixture

SCOPE OF PROJECT

Full depth concrete pavement construction for interstate highway



PROJECT SUMMARY

I-385 in Laurens County, South Carolina, is a four-lane controlled access highway that links I-26 in central South Carolina to Greenville. In 2010, a 15-mile stretch of the highway was rehabilitated, replacing existing asphalt with 10 inch thick concrete. Shoulder construction, lane width expansion and the raising and reconstruction of six overpass bridges was required to accommodate the new highway. Euclid Chemical concrete admixtures were used extensively throughout the project, delivering on-time performance and exceeding specification requirements.

From its plant in Monroe, North Carolina, Euclid Chemical provided full tanker loads of Type A water reducers, Type D water reducer/set retarders and air entraining admixtures to an on-site batch plant constructed by McCarthy Improvement. Admixtures were stored in oversized tanks and delivered using two different dispersing systems provided by Euclid Chemical. A third dispenser system was provided for use as a back-up/additional capacity system. The concrete mixture used for paving included a 650 psi, air entrained, flexural strength design. Different admixture proportions were required to accommodate a schedule that spanned multiple seasons and varying haul times.

The project benefited from full lane closures and alternate traffic routing, allowing McCarthy Improvement to complete the project in less time than with traditional lane closures, allowing for a savings of approximately \$35 million over three years.