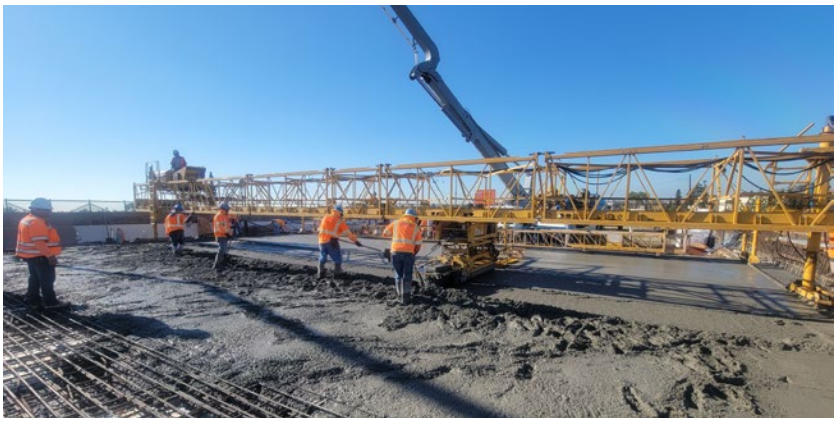
PROJECT PROFILE

I-405 IMPROVEMENT PROJECT

EUCLID CHEMICAL



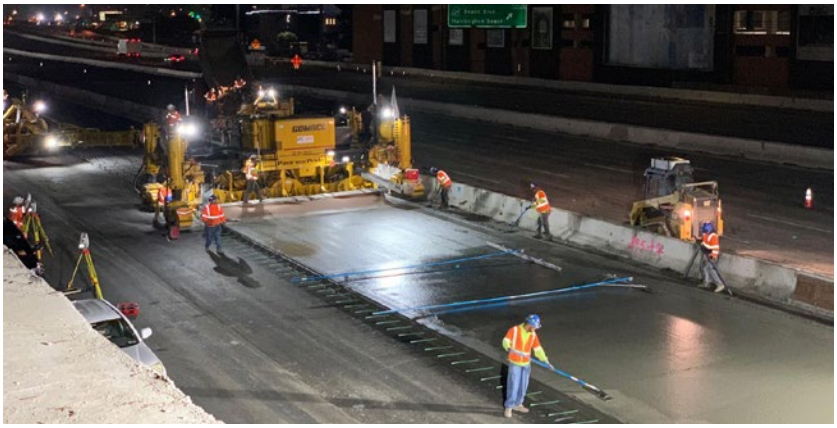


Photo courtesy of swcpa.org

PROJECT DATA

Location – Orange County, CA

Application – Paving & Bridge Decks

Design (Joint Venture) – Moffat & Nichol / H.W. Lochner / Arup

Contractor (Joint Venture) – OHLA USA / Astaldi Constructio

Ready Mix Producer – Associated Ready Mix

PRODUCTS FEATURED

TUF-STRAND™ SUPERMIX 31
Macro/Micro Synthetic Fiber Blend

PLASTOL™ 6420
Mid-Range/High Range Water Reducing Admixture

EUCON® WR 91
Water Reducing, Set Retarding Admixture

EUCON® AEA-92
Air Entraining Admixture

ACCELGUARD® NCA
Non-Chloride Accelerating Water Reducer

SCOPE OF PROJECT

- Widening and paving operations
- Bridge deck reconstruction for overpasses
- Accelerated construction timeline

PROJECT SUMMARY

The Bolsa Chica Overpass, pictured above, is one of 22 bridge reconstructions that are a part of the expansion and widening of the I-405 freeway located in Southern California. This large project entails widening 16 miles of I-405 between SR-73 freeway in Costa Mesa and I-605 near the L.A. County line. As a part of bridge deck construction, CALTRANS concrete specification was adopted using low shrinkage, fiber reinforced concrete. The Bolsa Chica Overpass used 1,000 yd^3 (765 m^3) of concrete containing Euclid Chemical's TUF-STRAND SUPERMIX 31, a pre-packaged blend of 3 lb macro and 1 lb micro synthetic fiber. Approximately 300,000 yd^3 (230,000 m^3) of concrete using Euclid Chemical's air entraining, water-reducing and accerating admixtures are being used on the entire project, which is managed by OC 405 Partners JV.