



SOLUTIONS | Case Study



Easy to mix, high compressive strengths, a fast set time, and exceptional jobsite support equal success.



Airline Terminal Taxiway Repairs

Los Angeles Airport (LAX), California

Product:

Five Star® Rapid Surface Repair Easy Mix™

For information 1-800-243-2206 • FiveStarProducts.com



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Airline Terminal Taxiway Repairs



Date of Project: May 2017

Project Contractor: Hensel Phelps

Project Engineer: HNTB

Market/Environment: Infrastructure / Airport

Substrate: Concrete

Size of Project: 650 units / 266cf



The Challenge

A major United States airline was experiencing taxiway issues with the operation of its 78,000 pound mobile bridge at the Los Angeles International Airport. The bridge moves between a parked plane and the terminal multiple times every day while traveling over a buried tunnel. When the concrete covering this tunnel was originally poured, the elevations were misaligned. Numerous repairs to align the elevation had been attempted with no permanent success. Due to the four-inch change in elevation from the top of the tunnel to the bottom of the mobile bridge tires, the airline was experiencing rutting where the tires travelled over the asphalt patch; the latest attempt to fix the elevation.

Five Star® Solution

Five Star® Rapid Surface Repair Easy Mix™ was chosen for the project after a successful demonstration exhibiting the product's rapid set, fast turnaround time, and extreme impact resistance, all of which addressed the engineering firm's point load values.

The project's large surface area was broken into "cells" roughly 3' wide by 15 - 20' long by 4" deep. Doweling was used in all cells to provide enhanced properties. The project was completed in two days. The crew mixed, placed and finished 300+ units in approximately 2.5 hours on each of the two days. The mobile bridge was driven over the repairs only hours after placement.

Rapid Surface Repair Easy Mix™ proved true to its name: easier and less complicated to mix, high psi, no need for bonding adhesive, and a fast cure time. With the presence of Five Star's renowned jobsite support, this product installation was a success for both the airline and the contractor.

Five Star® Rapid Surface Repair Easy Mix™

Traffic ready in as little as 30 minutes*

Conveniently formulated for bucket mixing, this product is a self-leveling, low viscosity, two-part liquid polyurethane-hybrid polymer used to make an impact and traffic resistant polymer concrete.

When supplemented with its proprietary blended aggregate, it is used to repair and rehabilitate concrete and asphaltic pavements and can be installed at temperatures down to 0°F (-18°C). Within minutes of placement, durable, long-lasting repairs are able to handle vibration, heavy traffic, and thermal movement.

- Make repairs year round - hot or cold
- No priming required to bond to concrete
- Waterproof, chemically resistant membrane protects substrates from freeze-thaw spalling

*dependent upon air and substrate temperature

FIVE STAR® SERVICES

- Design-A-Spec™ engineering specification assistance
- Technical on-call center with field and project experienced staff
- Field support representatives for on-site consultation
- Corporate research laboratory available to customize products for unique applications



For worldwide availability, additional product information and technical support, contact your local Five Star® licensee, distributor, local sales representative, or you may call the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.

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