

## San Diego Airport - Taxiway and Gate Rehabilitation

A HOCHTIEF Company

### Owner

San Diego County Regional Airport Authority

### Location

San Diego, CA

### Value

\$7,700,000

### Market

Airports - Pavement Rehabilitation

### Start - Completion Dates

12/2005 - 7/2007

- 800,000 linear feet of concrete joint repairs
- 3,500 square feet of polyester concrete spall repairs
- 11,700 square feet of full panel replacement
- Rapid strength concrete used for panel replacements

## Project Description

Flatiron rehabilitated the concrete and joints for the San Diego International Airport taxiways and gates. Flatiron cleaned and resealed the concrete joints using polyester concrete to patch and repair all major concrete spalls on panels. Flatiron also replaced all damaged concrete panels.

In order to adhere to the strict time constraints required by the airport, Flatiron batched rapid strength concrete (RSC) in volumetric mixers, mixers that batch concrete "on-demand," and returned the gates and taxiways to the airport for use at the end of each work shift.

Batching and placing RSC requires not only the ability to achieve required production rates, but also the ability to control quality. Contractors that batch and place RSC must understand the chemistry of and be able to tightly control the mix design to ensure the concrete reaches and maintain its structural integrity. Flatiron's experience and know-how enabled the company to develop and modify mix designs for specific circumstances. Flatiron takes into consideration climate variables, like humidity and temperature, as well the size of project, the type of repair that is required, and other aspects that could have an affect on the RSC.

### Company Role

Flatiron was the prime contractor for this project.

