

INDIANAPOLIS INTERNATIONAL AIRPORT AIR CARRIER TERMINAL RAMP REHABILITATION



Project: 13 acres of Terminal Ramp Reconstruction along Concourses A, B and C.

Construction Cost: \$4,212,400

Funding: FAA AIP Entitlement Funds

Summary: Asphalt pavement was not selected because of the concern with rutting, shoving and fuel spills. No delays in airline operations were created. The existing concrete pavement varied from 11 to 16 inches over 6 to 12 inches of aggregate. The existing panel sizes were generally 25 feet by 75 feet. Methods of repair included reduced panel size to reduce mid-panel cracking, a new load transfer device replacing dowel bars and the use of silicone for joint and crack sealant material where jet fuel resistant materials were required. The load transfer device was not used because of the high cost of the material and the final constructed work involved mostly panel removal. The silicone sealant was used with great success. This project was the first location in Indiana where silicone sealant was used on an airport apron. The manufacturer was motivated to offer a 10-year product warranty to insure sealant selection. The final construction cost was below the original budget estimate.