



PROJECT BRIEF



AEROPUERTO INTERNACIONAL DE TOCUMEN

Project Type:

Airport

Application:

Topping to Level Concrete Pads

Location:

Panama City, Panama

Project Dates:

December 2017 – January 2018

Project Size:

5,425 sq. ft.

Project Owner:

Republic of Panama

Engineer:

Sampol Engineering

Products:

Rapid Set® Concrete Mix, SET Control®,
FLOW Control®

Tocumen International Airport (Aeropuerto Internacional de Tocumen), located in Panama City, the capital of Panama, serves as the home base for Copa Airlines and is a regional hub to and from the Caribbean and North, Central and South America. It also features routes to some European and Asian cities.

Seven concrete pads located inside the airport's electrical and mechanical rooms needed to have a generator installed on each, but the pads were not level. To fix this, the contractor first prepared the concrete substrate by mechanically abrading each 775-square-foot pad. Then the contractor cleaned and prewet the surface, and then applied a topping using Concrete Mix.

Daytime temperatures in Panama hover around or above 86 degrees Fahrenheit all year long. To ensure the material would not set too fast in the heat, the contractor added 1 packet of SET Control® (to retard the admixture) and two packets of FLOW Control® (to enhance the flow consistency) for each bag of Concrete Mix used. The topping was mixed with a handheld mechanical mixer and applied with a steel trowel. The repaired pads were water cured and broom finished.

In all, 540 bags of Concrete Mix were used along with 1,080 packets of FLOW Control and 540 packets of SET Control.