CASE STUDY

Project: Hong Kong International Airport – 15 Year Partnership

Client: Airport Authority Hong Kong

Contractor:

Paver Type: Interlocking Concrete Block Paving

Area: Over 175,000m^2

Product: Resiblock '22'

Date: 2003 - 2018

The Site

Coming into operation in 1998, Hong Kong International Airport, known colloquially as Chek Lap Kok Airport due to its location on the island of the same name, replaced Kai Tak Airport. It has now become the most important regional trans-shipment centre, passenger hub and gateway serving 45 destinations in Mainland China as well as the rest of Asia. The airport is also the world's busiest cargo gateway having surpassed Memphis International Airport in 2010.

The Challenge

Following a 'Report on the Condition of CBP Paving at Hong Kong International Airport' in 2002, it was noted that "severe distress to the structural integrity of some parts of the CBP pavement…was so severe that there was significant potential for Foreign Object Damage…to both airfield vehicles and personnel." Therefore, a solution was required that would prevent sand erosion by 'jet thrust rotordown was and other forces caused through aircraft movement'.

The Solution

Resiblock were able to demonstrate to Mr Willie Fung of Airport Authority Hong Kong, that the use of Resiblock '22' would prevent sand erosion leading to paving failure from the above issues. As such, in 2003 Resiblock manufactured and shipped Resiblock '22' sealer to seal around 35,000m² of paving at Hong Kong International Airport. In the 15-year partnership that has ensued since the first sealing works, Resiblock have provided annual sealing solutions to Hong Kong International Airport since 2010, and the latest sealing works has now taken the total area sealed to over 175,000m².

Benefits

Applied as a liquid to the entire surface of the pavement, RESIBLOCK *'22'* is a specialist pre-polymer urethane sealer. Designed to enhance and maintain structural integrity of flexibly laid small element paving, RESIBLOCK *'22'* preventing the erosion of jointing sand, whether that be the forces of jet engines, general trafficking, pressure washing or vacuum sweeping. However, what is not as commonly known is that the use of this sealer will render modular paving joints completely impervious to water (and hydrocarbons) thereby ensuring structural integrity.

Benefits at a Glance

- One pack material / Easy application
- Prevents sand loss from cleaning regimes, pedestrian footfall and heavy-duty trafficking
- Inhibits the growth of weeds and grasses in the joints
- Maintains structural stability
- Significantly reduces maintenance costs