

Project Profile - Civil Engineering & Infrastructure

PROJECT

Hong Kong International Airport,
Chek Lap Kok

SUMMARY

45,000m² of a durable, waterproof
coating to baggage handling floor
4m below sea level

PRODUCTS

Fastfill WP
Cemprotec E-Floor
Cemprotec Sandseal 75

CLIENT

Hong Kong Airport Authority

CONTRACTOR

Astel

BACKGROUND ►

Situated on reclaimed land, at the time of construction this was the world's largest passenger terminal.

Its lower floor, several metres below sea level, houses the baggage handling facilities. The 600mm tethered slab construction was subject to the ingress of seawater both through cracks and general seepage, and it was impossible to achieve a dry substrate on to which the specified epoxy floor finish could be installed. An urgent technical solution was needed to allow the airport to open on time.

THE SOLUTION ►

Flexcrete offered the **Cemprotec E-Floor** system which is applied to damp surfaces to form a waterproof wearing course. Tested for water permeability under 10 bar pressure, **E-Floor** has equivalent properties to an extra 1000mm of concrete. To seal cracks exhibiting water infiltration under pressure, the non-caustic **Fastfill WP** was used. The application was finished with **Cemprotec Sandseal 75**, to provide an easy clean finish and enhance the longevity of the skid-resistant finish. The result is an exceptionally hard-wearing waterproof floor.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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