

Case study

Material development - Gatwick



Job title	Runway maintenance
Our client	VolkerFitzpatrick

Project brief

Working with our material supplier and client, we developed a Binder Course and surface course specifically designed to rectify deteriorating areas of surfacing at Gatwick Airport.

Delivery

After requirements were issued by Gatwick, through collaborative working, sharing the right knowledge and experience before undertaking rigorous offsite and onsite testing, customer value was generated for the airport through the creation of a bespoke material. One durable to Gatwick's own air traffic requirements.

During night shifts and under tight time restrictions, patches of failed surface on the main and northern runways and touchdown zones were planed and replaced with the bespoke products, 20mm SMA Binder Course with polymer modified binder - 60 PSV and 10mm SMA Surface Course with polymer modified binder - 60 PSV. The polymer modified binder was selected for its resistance to high stress, in areas of frequent accelerating, braking and taxiing of aircraft.

Achievements

A bespoke material for Gatwick:

- Durable to the airport's own air traffic requirements, reducing need for future maintenance
- Reduced risk of skidding
- Reduced risk of rutting
- Resistant to high stress

The works at Gatwick:

- Defect free
- On time
- To budget
- Zero harm

