



## CASE STUDY

**Project name:** Cornwall International Airport Newquay  
**Client:** Cornwall County Council  
**Contractors:** Mowlem PLC/Anzac Paving Ltd  
**Site:** 3 new aircraft aprons adjacent to terminal building  
**Project:** Apply joint stabilisation and aircraft liquids barrier to 4500m<sup>2</sup> new standard concrete block paving  
**Product/s used:** QShield  
**Date:** Feb 2006



### Problem:

The regions international airport had seen increased volumes of air traffic with much more envisaged in the future. Hence the addition of three new aircraft aprons adjacent to the Terminal building. In extreme operating conditions such as this any treatment applied to render the surface safe to operate MUST comply with MOD specification 035 (modified April 05), for sealing aircraft paving.

Only upon satisfactory completion and inspection of the work would the Airport receive their CAA licence to operate Aircraft within this new enlarged area.

Airports, situated as Newquay is are very exposed to sudden weather changes – often on an hourly basis. February '06 was a particularly cold month with sub zero temperatures and snow.

The contractor had to supervise the final pavement preparation prior to QSS applying the protective treatment selected so as to ensure that the joint sanding met with the strict guidelines laid down by the MOD.

### Solution:

QSS innovatively avoided any requirement for prior or post testing as QSS initially proved that the sealer application of 1 ltr/2.6m<sup>2</sup> exceeded the required joint sand penetration of 15 mm as specified by the MOD.

QSS liased with Weatherquest – micro climatic forecasters - to identify the only 5 day suitable weather window prior to the release for operations, Weatherquest went on to provide 2 hourly warnings of temperature drops below 4c and any impending snow showers- one of which produced 75mm of snow in half an hour.

QSS liased with the paving contractor and supervised the final sanding procedure to ensure it met with the MOD guidelines

**The project was completed to time and budget even in the weather conditions experienced.**



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### Benefits:

- The new aircraft paving did not have wait to be tested (random block pull out etc) by the MOD, as the evidence of the calibrated application and the validity of the product was sufficient.
- Newquay Airport received their CAA licence quicker than expected leading to a faster return on the investment for them.
- The CAA were impressed with QSS and highly complimentary of the approach taken by QSS to ensure that the work was completed in advance of the contracted end date.



**QSS has a testimonial on the 'weatherquest' website, Its MD is, Jim Bacon the TV renowned highly experienced weather forecaster. His team are recognised in the area as providing a highly valued service to the civil aviation industry.**