

Hawarden Aerodrome

Case Study

In September 2009 ASI Solutions' Rhinophalt was used to carry out 82,000m² of runway preservation at Hawarden Aerodrome. This process and associated runway markings took place over a weekend and in less than 72 hours, the runway was fully operational.

The preservation process offers an extended pavement life of between 3 and 5 years and is the ideal solution for Hawarden Aerodrome.



Proven technology of 20+ years

The Challenge

Hawarden Aerodrome were experiencing problems with the runway surface which was showing signs of degradation of the runway and posing a potential maintenance issue.

The programme was also a challenge with access to the runway being limited to weekends and nights.

Therefore, several options were taken into consideration in order to meet the challenges presented by Hawarden Aerodrome and offer the best solution to achieve their objectives.



Extended pavement life of 3-5 years

The Solution

Initial thoughts looked at potential surfacing options, including 'hot in-situ recycling' process, but as the runway

surface was in relatively good condition, this was not the right solution for Hawarden Aerodrome.

It was decided to investigate the potential to carry out preservation instead.

"Rhinophalt, without question, has arrested the surface deterioration and has been a total success."

Nigel Fardoe, Airbus Industries, UK

Hawarden Aerodrome commissioned Capita Symonds to investigate the possibility of utilising preservation. Several trials were undertaken of both preservation and rejuvenation materials. After these successful trials, ASI Solutions' Rhinophalt® preservation material was selected as the best solution.

Fast process minimises disruption

Preservation

ASI's Rhinophalt® is a solvent based solution. This preservation material is applied to the surface of the runway,

and allowed to penetrate into the binder.

This stabilises the binder and stops any further degradation. This process is designed to stop further oxidation of the existing pavement and preserve the existing asphalt for between 3-5 years. A further preservation can then be applied extending the life further. This proven process has been used in the UK since 1999 and in the US for 30 years.

The whole runway was preserved in less than 72 hours, an amazingly quick programme, beneficial to any client wishing to minimise the impact of maintenance work on their flying operations.

