

CASE STUDY

WHERE? Balvenie Distillery, Dufftown

WHEN?

WHO WAS THE CLIENT? William Grant and Sons (Distillers)

OVERVIEW:



The existing surface had undergone widespread wear and surface degradation due to heavy use by articulated lorries. A new HRA overlay was required to prolong the service life of the access road. Sand carpet was used to infill any eroded areas prior to the Glasstex SAMI being applied. A binder coat of 160/220 pen bitumen spray was applied and 2,500m² of Tensar Glasstex P50 laid using a purpose built machine by specialist installer Foster Contracting Ltd. The 40mm overlay was then laid by Leith's (Scotland) Ltd.

The project was finished on schedule and within budget.

WHAT WERE THE CHALLENGES?:

2,500m² of a heavily used access road to main warehouse at the distillery. A standard concrete road construction (450mm sub-base with a 200mm concrete slab) was showing evidence of surface degradation and wear causing the road to pot-hole in various locations. A solution was required to remediate the running surface and extend the service life of an overlay subject to heavy trafficking by heavy delivery vehicles.



THE SOLUTION:

Tensor Glasstex P50 was used to reinforce the new overlay. Tensor Glasstex is a composite paving product that acts as a stress absorbing membrane interlayer (SAMI) stitchbonded to high tenacity glass fibre yarns that provide additional reinforcement to the overlay. The Glasstex P50 was covered in a 40mm HRA wearing course.



BENEFITS TO CLIENT:

Simple, low-cost means of providing reflective cracking resistance to a 40mm HRA overlay on an existing concrete access road, increasing the service life and enhancing the protection of the underlying concrete on a 10% gradient. Compared with a full reconstruction (i.e. removal of concrete slabs and a full asphalt makeup) the client made a 70% saving.

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