

# CASE STUDY

**WHERE?** Balvenie Distillery, Dufftown

**WHEN?**

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

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## 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 2,500m<sup>2</sup> 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.

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## WHAT WERE THE CHALLENGES?:

2,500m<sup>2</sup> 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.



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## 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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