

Ballymount Avenue Upgrade Dublin Ireland 2005

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BENEFITS TO CLIENT

Reduced whole life costs for the upgrade and long term structural improvement of a road at the end of its life cycle.

THE PROBLEM

The existing road had reached the end of its life span and was being used for daily access to industrial estates, probably beyond the expectancy of its original design brief.

THE SOLUTION

The opportunity was taken for total road rehabilitation, including the widening of the carriageway and the inclusion of cycle and footpaths. Tensar AR-G was used to both mitigate reflective cracking along the length of the widening and also to provide additional fatigue strength and so reduce maintenance and increase the life of the pavement.

PROJECT DESCRIPTION

Ballymount Avenue in Dublin had reached the end of its life cycle and was in need of major repair. It forms part of a network of busy, heavily trafficked roads that service a number of industrial estates including Ballymount Corporate Park and The Westway Centre, along with a busy galvanising plant. The opportunity was taken to complete a full upgrade of the road, including widening of the carriageway and the inclusion of new cycle and footpaths.

Concern was raised over potential longitudinal reflective cracking along the joint of the old and new carriageway and Tensar asphalt reinforcing grids were installed to help militate against this along with increasing the general life of the pavement.



Road before upgrade



Road after upgrade

The road was inspected in 2010 and no signs of longitudinal cracking or fatigue in the pavement was visible.

Ger Browne of Carroll & Browne Consulting Engineers commented that, "After 5 years the road surface is still like new and the Tensar AR-G is most certainly doing the job intended."

CONTRACT DETAILS

Client: South Dublin County Council

Consultant: Carroll & Browne Consultants

Contractor: SIAC Construction Limited

Asphalt Reinforcement Distributor: TAL Distribution Limited

Tensar

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