

CASE STUDY

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We were very satisfied with the demonstration that was carried out with the PermaFyx Asphalt Repair Material. The repair was carried out quickly at a busy junction where two regional roads intersect within a 50kph urban environment. The repair has performed very satisfactorily to date with no visible signs of distress or failure evident at this stage.

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**Senior Executive Engineer
Galway County Council**



**PERMANENT COLD-LAY ROAD SURFACE DEFECT
REPAIR AT BUSY URBAN ENVIRONMENT**



**Comhairle Chontae na Gaillimhe
Galway County Council**



MEON
DELIVERING GREAT SURFACES



PROBLEM:

Galway County Council invited Meon to trial a solution for a road surface defect in the Loughrea Municipal District area. The surface failure consisted of wearing course layer de-bonding from base layer substrate due to being laid at depths less than 40mm in some places, resulting in large area shallow potholes forming at a busy turning junction.



SOLUTION:

PermaFyx L273 MMA asphalt repair was chosen for this due to its ability to be laid at shallow depths without the need for large plant and equipment. The trial area, consisting of approx. 2sqm at 20-30mm depths, was prepared by saw cutting edges and removing loose material before mixing and laying PermaFyx L273 to a trowelled finish. The edges were then sealed using UltraCrack L270 MMA overbanding and joint repair to prevent water ingress and aggregate loss to the perimeter of the repair.



RESULT:

Due to the cold mix application of this material and trowel finish laying method, no hot works plant or compaction equipment was required for this repair, removing the need to mobilise costly plant and machinery for a small defect.



SYSTEMS USED:

**PermaFyx L273
MMA Asphalt Repair System**



PermaFyx L273 is an MMA based product designed for reinstatements around ironworks, repairing potholes, and other defected asphalt surfaces. PermaFyx L273 has exceptional durability, holds up in heavy traffic with no settling and does not lose surface texture, maintaining the slip resistance over its lifetime.

BENEFITS:

- Outlasts surrounding substrate - No repeat defects
- PSV, texture depth & slip resistance meet highway requirements
- Easy to work - reduced fatigue with no stiff mixes
- No large equipment required - improved efficiencies for small, reactive repairs

**UltraCrack L270
MMA Overbanding & Joint Repair System**



UltraCrack L270 is a methyl-methacrylate (MMA) cold plastic product designed for crack infill & overbanding. It is a cold-lay system requiring no hot works or specialised equipment and is very simply to apply. This is perfect for all cracks that move in a variety of angles on the road.

BENEFITS:

- Skid resistant
- Strong and durable - resistant to wear
- Fast curing - allows traffic within minute
- Cost effective - reduces defect costs and obviates specialist call out charges

PROJECT OBJECTIVES:

SAFETY



Focused on improved road safety through performance whilst removing high risk operations in support of the industries Zero Carbon goal.

DURABILITY



For every application, we aim to be able to demonstrate ways to reduce Whole-Life costs through improved system performance.

SUSTAINABILITY



Supporting central government Decarbonisation strategy with a goal to reach net zero by 2050.