

# CASE STUDY

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The durability of the repair has been outstanding, withstanding very heavy traffic and harsh weather conditions.

The results are truly impressive.

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**3MB Civil Engineering**



**COLD LAY ASPHALT MATERIAL REPAIRS POTHOLES  
CAUSED BY HEAVY VEHICLE TRAFFIC**

**MMMB**  
3MB ENGINEERING LTD



**MEON**  
DELIVERING GREAT SURFACES

**PROBLEM:**

Southampton Docks is a major hub for container shipping, with more than 2 million containers passing through each year. The road surface deterioration caused by heavy container trucks is a recurring issue and having the time frame to carry out a permanent repair through road closure was not an option. The impact of leaving such a repair only causes more issues down the line, heavily trafficked areas will see further deterioration, leading to greater cost the longer it is left. The Dockyard has undergone significant redevelopment in recent years and keeping the road surfaces maintained is a continual process, as they have heavy and very intense traffic.



**SOLUTION:**

The road surface repair was required to be quick and efficient, without the use lots of equipment and minimal downtime on the road, allowing the container trucks minimal delay with the transport of their goods. Our PermaFyx L273 Permanent Asphalt Repair Kit was the perfect solution for this problem, being robust and resistant to repeat defects, replicating the original hot lay asphalt aesthetic with a professional finish, and being extremely practical for the situation with a fast cure time.

**RESULT:**

Within the short period of 30 minutes after application, the section of road requiring repair was back open to use and the heavy goods transportation was resumed, ensuring no serious down time or delay. The process of repair was efficient without the need for compaction or hot works, saving both time and money. Both the texture depth and slip resistance from this product meet the highway requirements, making our PermaFyx L273 an excellent permanent asphalt repair solution, highly likely to outlast the surrounding substrate.



**SYSTEMS USED:**

**PermaFyx L273  
Permanent Asphalt Repair Kit**



PermaFyx L273 is a permanent asphalt repair product based on high-performance cold applied MMA (Methyl Methacrylate) resin which will outlast the surrounding substrate. This is the perfect solution for small defect repairs, sunken trenches, potholes and ironwork surrounds, where it's not practical to use a hot box but a permanent repair is required.

**BENEFITS:**

- Outlasts surrounding substrate - No repeat defects
- No compaction required - no risk of disturbing freshly laid mortar
- No hot works required - improved safety & sustainability
- No large equipment required - improved efficiencies for small repairs

**RECOMMENDED USE:**



Highways



Car Parks



Warehouses



Airports



**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.