

Brunswick Car Park, Scarborough - CarbonZero

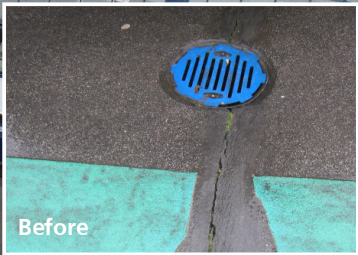
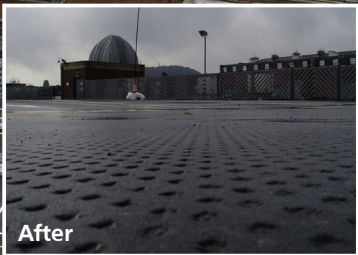
500 Tonnes of IKO Permapark used for Shopping Centre's New Car Park

Project Description

Located in the heart of Scarborough, North Yorkshire, Brunswick Shopping Centre offers shoppers over 30 shops under one roof. The shopping centre has an annual footfall of approximately 7 million people and offers on-site car parking split over two levels.

The asphalt surfacing, which was the original covering, had come to the end of its serviceable life. The surface showed significant signs of wear and tear and had various repairs which had been undertaken using various systems, some of which had a detrimental effect on the asphalt.

Various options were considered, including overlaying the asphalt but none of the solutions could compete with the proven track record, durability, compatibility and market leading warranty offered by IKO and its Permapark System.



The net carbon footprint of this project is entirely offset using internationally approved carbon credits, which means for every tonne of Mastic Asphalt made, we are helping to fund environmental and humanitarian causes.

Impact Calculator: 500 Tonnes Mastic Asphalt = 79.29 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole
Environment	CO ₂ e prevented through the projects	39.14 tonnes	39.14 tonnes
	Wood Saved	31.53 tonnes	27.66 tonnes
Social	Number of Stoves	12	n/a
	Total People Impacted	65	23
Economic	Working Time Saved	812 hours	n/a
	Working Days Equivalent	101 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	9	n/a
	Asthma	8	n/a
	Ear, Nose and Throat Irritation	3	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	20	n/a
	Clean Water Supplied	n/a	48,883 litres

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Solution

IKO Permapark, a mastic asphalt waterproofing and surfacing system for elevated vehicle decks, was specified as the main covering for the car park which provided long-term durability, increased fatigue resistance, improved temperature stability and ease of installation.

For detailing works, IKO Polimar EC/UV Cold Applied Liquid System was used. Its high performance polyurethane resins provided extra durability and puncture resistance. Brush and roller applied application made the system ideal for the areas of limited access.

As well as its solvent-free application, IKO Permapark also provided excellent fire performance and 100% carbon neutral solution.

Like for like replacement of the surfacing was carefully planned in conjunction with NRA Roofing & Flooring Services Ltd.

Maintaining as much functionality of the car park as possible to minimise revenue impact, while allowing works to progress was a significant challenge of the project. A phased approach was adopted which ensured that total closure periods of the car park were minimised to less than a quarter of the overall project.

After a 21 weeks of refurbishment programme, the car park fully opened to the public on the 19th October 2018.

Carbon Zero: <http://www.co2balance.com/>

The data from the Impacts are based on the field work carried out by CO2balance within the project locations in Kenya. The data that is gathered is in line with the requirements of the Gold Standard as part of the annual Monitoring. These Monitoring Reports are available on request. Data is then cross comparable against national averages in Kenya to ensure accuracy. Assumptions and extrapolations

have been used where relevant. The Health Data is derived from the following sources R. Perez-Padilla et al, 2010. 'Respiratory health effects of indoor air pollution' in International Journal of Tuberculosis and Lung Disease, vol. 14 no. 9, pp1079-1086. Kenya National Bureau of Statistics. (2008). Kenya Integrated Household Budget Survey. Ministry of Planning and National

Development, p1-300. 3 Wood saved and clean water supply - Calculations based on field measurements conducted by staff contracted to CO2balance and are conducted according to the requirements defined by the Gold Standard. Monitoring data is available on the Gold standard registry.

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