

Carbon Offset

Sainsbury Car Park, Orpington, South London



4,000m² IKO Permapark Specified for Sainsbury’s Car Park Refurbishment

Project Description

IKO Permapark has been used to refurbish a 4,000 sq m Sainsbury’s car park in Orpington, South London, which has offset more than 60 tonnes of CO₂ emissions.

The specially-formulated mastic asphalt waterproofing and surfacing system was installed across two decks, including ramps, by installing contractor Black Rock Asphalt on behalf of main contractor, KSD Group. The work had to be completed within a tight nine-week programme adhering to strict working hours and while the car park remained open to customers.



Product(s) / System(s)

- IKO Permpark Waterproofing System
- IKO Permapark Paving

IKO Guarantee

20-Year Single Point Guarantee

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

Impact Calculator: 385 Tonnes Mastic Asphalt = 60.28 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO ₂ e prevented through the projects	30.14 tonnes	30.14 tonnes
	Wood Saved	24.28 tonnes	21.29 tonnes
Social	Number of Stoves	9	n/a
	Total People Impacted	50	17
Economic	Working Time Saved	625 hours	n/a
	Working Days Equivalent	78 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	7	n/a
	Asthma	6	n/a
	Ear, Nose and Throat Irritation	3	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	16	n/a
	Clean Water Supplied	n/a	37,640 litres

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Solution and Installation

Made using advanced polymer technology, IKO Permapark is highly durable with a design life that exceeds standard mastic asphalt deck systems. The result of extensive research and development, it can withstand continuous vehicle traffic, resist cracking and offers high temperature stability, minimising the risk of deformation.

The specified system comprised a single coat of IKO Permapark Paving followed by a single coat of IKO Permapark Waterproofing. It was delivered to the site ready to use in 18-tonne hot charge tankers and transported to the working area using asphalt luggers. No secondary heating or melting was required on site, ensuring a quick and safe installation.

Lee Lidbetter from Black Rock Asphalt said: "This was a very challenging project as we not only had to carry out the work at set times but contend with wet weather which all put pressure on the tight construction programme.

"As the car park was in operation while the refurbishment was taking place, we used traffic marshals to direct customers' vehicles and safely move the luggers. To reduce noise levels, we planed the surface instead of breaking it up and all materials removed were used for road scalplings to minimise waste going to landfill.

"Despite these challenges, the work was completed within the short timescales and to a high standard. This was achieved thanks to the ease of installation of IKO Permapark and its quick drying times as well the technical advice we got from IKO throughout the design and implementation process ensuring the system met all the client's requirements."

Another key benefit of IKO Permapark is its environmental credentials. Unlike any other elastomeric coating available in the UK, IKO Mastic Asphalt is recyclable and the only product that is 100 per cent CO₂ neutral. The mastic asphalt sector has also achieved the CarbonZero standard, so the net carbon footprint of all projects is offset using internationally approved carbon credits.

The work carried out at Sainsbury's involved 385 tonnes of mastic asphalt which means 60.1 tonnes of CO₂ has been offset, which will help to fund environmental and humanitarian causes.

Marcus Lee, Divisional Director at IKO PLC, added: "IKO Permapark is formulated using carefully selected polymers ensuring a very robust solution for car parks that will last for at least 20 years. The system provides a seamless, totally waterproof layer, which can be trafficked within a few hours making it ideal for decks, multi-storey car parks and access ramps."

Main Contractor: KSD Group // **Installing Contractor:** Black Rock Asphalt

Client: Sainsbury

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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