

Carbon Neutral The National Grid HQ, Warwick

540 Tonnes of IKO Permapark Waterproofing System

Project Description

The National Grid required a solution to a long standing problem. The main car park at their HQ in Warwick had been leaking for a number of years. Various systems had been employed to tackle this issue, however all had failed.

With the double storey car park leaking, some areas were condemned as 'out of action'. The National Grid were having to hire the use of a nearby car park for its staff and visitors, then run a bus service for collections and drop-offs at the inconvenience of everyone involved. This was also at a considerable cost to the business and also caused disruption to the daily working pattern of employees.

The solution proposed by IKO and subsequently provided, meant stripping and replacing the existing 6,500m² car park deck within a twelve week period, in two phases, whilst keeping the remaining 18,000m² open to its employees, minimising disruption to the business, staff and visitors.

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: 540 Tonnes Mastic Asphalt = 84.2 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data
Environment	Wood Saved	23 tonnes
	Area Protected	0.21 hectares
Social	Number of Stoves	9
	Time Saved	605 hours
	Children Impacted	28
	Elderly People Impacted	9
	Total People Impacted	49
Economic	Working Time Saved	605 hours
	Working Days Equivalent	76 days
Health	Likely reduced cases from project support	
	Respiratory Illness (Lower Chest / Lung)	7
	Asthma	6
	Ear, Nose and Throat Irritation	3
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	16

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



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PITCHED ROOF SYSTEMS | INSULATION | STRUCTURAL WATERPROOFING & COMPOUNDS



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Solution

As this was a refurbishment project and the car park deck was covered by rubber compound, block paving on a sand bed and liquid waterproofing there were a lot of unknown variables which could possibly increase costs and delay the project. IKO Permapark was chosen because it could guarantee that regardless of the ambient temperature, finish of substrate condition and moisture content within the deck, it could overcome these issues with little disruption to the project time-line. IKO Permapark also offered an unrivalled Guarantee of 20 years, with an agreement certificate of 50 years. This ensured The National Grid would be provided with a long term solution.

The project team at The National Grid had not previously considered Mastic Asphalt as a solution and had looked at various other installations, considering yet another liquid coating which would not have offered the robust, long term solution that IKO Permapark would provide. After discussing their requirements and the tight program schedule they had set themselves with IKO, it was decided that IKO Permapark was the right system necessary to solve the long-standing issues.

The project was carried out in two phases, only closing half of the car park area at any one time. 6,500m² of the current car park surfacing was stripped up and replaced with IKO Permapark over an 8 week period. The only disruption to The National Grid whilst work progressed during the 8 weeks was the loss of the spaces.

The project was delivered ahead of schedule and on budget, giving The National Grid the full use of the Car Park again after many years of leakages. So successful was the project that a further 6,500m² of IKO Permapark is scheduled to be installed on the adjacent Car Park later this year (2016).

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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