

Carbon Offset

The Oval, Conisbrough, Doncaster

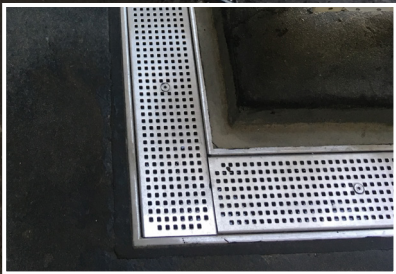
64 Tonnes of Bespoke Mastic Asphalt Waterproofing Solution for a Large Residential Development

Project Description

IKO Plc was contracted to work alongside ENGIE, John Hill Associates, and Tucker Tunstalls to provide important waterproofing and slip-resistant solutions for The Oval in Conisbrough using their mastic asphalt solutions. Managed by St Ledger Homes, the development includes around 97 flats and bungalows populated by residents of 60 years and older. Due to the vulnerable nature of the residents, IKO Plc was brought in to help improve safety and sustainability across the development’s balconies with our revolutionary waterproofing solutions.

One of the requirements of the project was to improve the slip resistance of the various balconies around the development as well as to mitigate pre-existing ponding water problems that were present. John Hill Associates worked directly with St Ledger Homes to decide upon a series of products which would not only work from a functionality perspective, but could also be applied quickly, safely, and efficiently. Ultimately both parties decided upon IKO Permaphalt, a mastic asphalt waterproofing & surfacing solution along with IKO Permascreed and IKO Polimar FCS as the ideal products for the task.

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: 64 Tonnes Mastic Asphalt = 10.02 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO ₂ e prevented through the projects	5.01 tonnes	5.01 tonnes
	Wood Saved	4.04 tonnes	3.54 tonnes
Social	Number of Stoves	2	n/a
	Total People Impacted	8	3
Economic	Working Time Saved	104 hours	n/a
	Working Days Equivalent	13 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	1	n/a
	Asthma	1	n/a
	Ear, Nose and Throat Irritation	>1	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	>2	n/a
	Clean Water Supplied	n/a	6,257 litres

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



BITUMINOUS MEMBRANES | COLD APPLIED LIQUIDS | HOT MELT | **MASTIC ASPHALT** | SINGLE-PLY
PITCHED ROOF SYSTEMS | INSULATION | STRUCTURAL WATERPROOFING & COMPOUNDS



Carbon Offset

The Oval, Conisbrough, Doncaster

64 Tonnes of Bespoke Mastic Asphalt Waterproofing Solution for a Large Residential Development

Solution and Installation

IKO Permaphalt is known for its durability, temperature stability, and fatigue resistance, but what also drew John Hill Associates towards the solution was its ease of installation. As a populated social housing development, it was integral to St Ledger Homes that the solution could be applied in a fast and efficient manner to avoid incremental costs which could have been required to accommodate for ongoing resident needs and any potential arising safety hazards. Thanks to the use of advanced polymer technology, IKO Permaphalt is amongst the easiest to install on the market and also cools very fast.

Jon O'Neill, Director of John Hill Associates detailed: "The biggest challenge we faced was working alongside vulnerable residents. Within a social housing environment, you've got some individuals of an elderly or vulnerable nature and you can't just 'get them out' if something unfortunate happens. It was a part of the process from the early stages to look at how we can offer a product that works, that can strip off the existing solution, and can cure quickly enough so that we wouldn't need to remove all the residents from their homes during the process."

"The IKO product ticked all the boxes in as it was safe, quick and easy to lay, and if there were any incidents during our time on site, then we could get the individuals out with little effort through temporary access over the product as it cures very fast. On projects like this, it is crucial to assess all potential scenarios. If you have to remove all the residents, such as during a fire evacuation, then you have to look at ensuring access away from the building. Putting alternatives like this in place would be extremely costly and so the fast curing feature of IKO Permaphalt was critical to the scheme by ensuring a safer environment for all."

Feedback on the project has been incredibly positive for all those involved. The work not only showcases the potential of IKO Permascreed, IKO Permaphalt and IKO Polimar FCS but also signals a continued relationship with John Hill Associates going forward, with other challenging projects already underway.

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.

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



BITUMINOUS MEMBRANES | COLD APPLIED LIQUIDS | HOT MELT | **MASTIC ASPHALT** | SINGLE-PLY
PITCHED ROOF SYSTEMS | INSULATION | STRUCTURAL WATERPROOFING & COMPOUNDS

