

Heath Town, Wolverhampton - CarbonZero

60 Tonnes of IKO Permaphalt Used to Upgraded Housing Block Walkways

Project Description

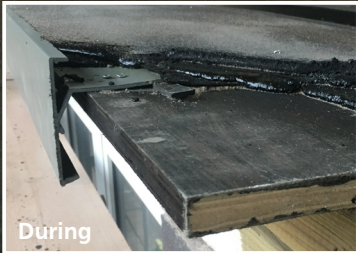
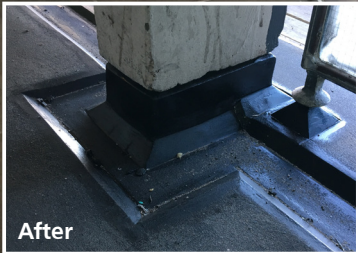
The multi-million-pound regeneration of Heath Town, which aims to revamp one of the most rundown estates in Wolverhampton, is moving to the next stage, with existing properties receiving a £35m face-lift.

With a few selected blocks ear marked for demolition to allow space for new buildings, the remaining blocks will undergo to an extensive remodelling and updating including new front doors and façade, new UPVC windows, new coverings to the walkways, balustrades and ceilings along the walkways.

In addition, all fire safety measures have already been upgraded including the creation of a fire-proof zone along the walkways.

Heath Town boasts over the 1,000 dwellings and is home to thousands. With such large numbers, it wasn't feasible to temporary rehouse the residents so all the works were undertaken whilst the remain in situ. Health & safety of the occupiers have been the key factor in the installation process. Flexibility was needed to carry on with the works whilst ensuring minimal disruption to the residents. Small details such as outlet chutes had to be finalised at a later date following other trades completing areas which dovetailed in with the waterproofing.

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: 60 Tonnes Mastic Asphalt =9.39 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole
Environment	CO ₂ e prevented through the projects	4.70 tonnes	4.70 tonnes
	Wood Saved	3.78 tonnes	3.32 tonnes
Social	Number of Stoves	1	n/a
	Total People Impacted	8	3
Economic	Working Time Saved	97 hours	n/a
	Working Days Equivalent	12 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	0	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	2	n/a
	Clean Water Supplied	n/a	5,866 litres

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Solution

With the original asphalt covering believed to date back to the 1960s, the client wanted to ensure that the replacement walkways would perform in a similar manner. Whilst there are more systems on the market today, only IKO's Mastic Asphalt offered the client the flexibility in installation coupled with the market leading life expectancy and impressive proven track record.

The original build up included approx. 26mm of fibre board with a mastic asphalt covering. Whilst it would have been easier to remove the insulation from the upper side of the construction, the client identified this element as a 'must have'. Mastic asphalt in combination with IKO enertherm Insulation Boards were used. This build-up provided the thermal performance and longevity that the client was looking for without using complicated models.

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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