

Cost & Carbon Analysis:

3-man mastic team

Cost analysis: 3-man mastic team	
m2	55
men	£510.00
1 truck & 1 boiler	£160.00
fuel	£50.00
tools	£10.00
gas	£27.50
asphalt tons: 1	£114.00
mastic	£935.00
Total	£1,806.50
direct cost per m2	£32.85
Tm	
fixed overheads	£150.00
profit and risk	
Total all-in cost	£1,956.50
Total all-in cost per m2	£35.57

Carbon analysis: 3-man mastic team					
Item	material	unit	weight / volume	C02e conversion factor	total carbon / ton
mastic	mastic	ton	0.88	0	0.00
emulsion	emulsion	litre	10	0.222	2.22
1 truck & 1 boiler	diesel	litre	33.3	2.6	86.58
gas	gas	kg	12.92	2.9	37.47
wacker plate	petrol	litre	2	2.8	5.60
mastic delivery	diesel	litre	0.88	3.75	3.30
asphalt	asphalt	ton	1	55	55.00
asphalt delivery	diesel	litre	1	1.875	1.88
yard hot box	gas	kg	0	2.9	0.00
Total kilograms of C02e					192.04
Kilograms of C02e per m2					3.49

4-man mastic team

Cost analysis: 4-man mastic team	
m2	120
men	£680
2 trucks & 1 boiler	£240
fuel	£90
tools	£10
gas	£36
asphalt tons: 1.5	£171
mastic	£2,040
Total	£3,267
direct cost per m2	£27.23
Tm	
fixed overheads	£150
profit and risk	
Total all-in cost	£3,417
Total all-in cost per m2	£28.48

Carbon analysis: 4-man mastic team					
Item	material	unit	weight / volume	C02e conversion factor	total carbon / ton
mastic	mastic	ton	2	0	0.00
emulsion	emulsion	litre	15	0.222	3.33
2 trucks & 1 boiler	diesel	litre	60	2.6	156
gas	gas	kg	16.9	2.9	49.1
wacker	petrol	litre	2	2.8	5.6
mastic delivery	diesel	litre	2	3.75	7.5
asphalt	asphalt	ton	1.5	55	82.5
asphalt delivery	diesel	litre	1.5	1.875	2.81
yard hot box	gas	kg	0	2.9	0
Total kilograms of C02e					306.81
Kilograms of C02e per m2					2.56