

COLLACE QUARRY WARM MIX ASPHALT 2025

(non-technical overview)

In an ongoing commitment by Tayside Contracts and our council partners of Angus, Dundee City and Perth and Kinross councils to consider how the services we provide impact the climate change agenda and the commitment to reduce our CO2 emissions to help move towards a net zero objective, we are pleased to advise the introduction of Warm Mix Asphalt materials 'TayLow' into the range of low carbon materials produced at Collace Quarry for more sustainable road surfacing.

Warm mix asphalts are manufactured, supplied and laid at temperatures lower than conventional hot mix asphalts (20 to 40°C less). They also provide a number of site safety and productivity benefits, with no compromise on performance.

It is the latest example of our commitment to using technical expertise to create more sustainable paving materials. Responding to the challenges faced by modern paving engineers, it is designed to help them complete more work in less time, keep busy roads moving and meet the highest standards of safety and sustainability.



Benefits of WMA

1

Reduced greenhouse gas emissions due to reduced energy in the asphalt manufacturing process.

A reduction in CO2 emissions of between 5% to 15%, dependant on asphalt plant settings and other factors.

Based on projected sales for 2025/26, potential to reduce annual CO2 emissions at Collace Quarry by 109.8 tonnes, equivalent to;

- taking 25 cars off the road for a year, or
- 60 round trips from London to New York, or
- the annually electricity to power 70 homes.

2

Improved site safety with reduced exposure to fumes and lower working temperatures for road maintenance workers.

Potential to reduce fume emissions by 70% (European Asphalt Pavement Association data).

3

Reduced laying and compaction temperature making it possible to open roads to traffic sooner.

4

Increased workability of mix, giving extended fixed and mobile asphalt storage time.