

WARM MIX ASPHALT

Low temperature asphalt reducing
carbon emissions and improving
efficiencies



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Warm Mix Asphalt is manufactured at lower temperatures than traditional Hot Mix Asphalt.

Warm Mix Asphalt offers a more sustainable solution, with benefits including a reduction in energy usage, reduced carbon and time on site.

Features and benefits

Warm Mix Asphalt (WMA) can be laid using existing equipment and requires limited modification of existing plant to produce it at temperatures 40°C lower than traditional Hot Mix Asphalt.

Lower production temperatures of WMA's help to reduce the carbon emissions associated with asphalt production by up to 15%.

The reduction in temperatures also help to reduce the health and safety risks associated with both production and laying of asphalt at high temperatures such as burns, exposure to fumes and the impact of steam on visibility.

The reduction in temperatures mean that WMA's take a shorter time to cool so greater volumes of asphalt can be laid in one shift, and the finished surface opened earlier to traffic without the risk of the material deforming under heavy loads. This increases productivity, reducing the overall timeframe of the works and potential delays to motorists.

Improved durability is achieved due to being laid at lower temperatures and the increased

amount that can be laid in a single shift, it also means less construction joints in the road requiring less maintenance in the future. This again increases the long-term benefits including life-time cost and further maintenance.

WMA can also still offer the same RAP percentages as conventional asphalt mixes whilst performing to the same standard.

Guaranteed compliance

All mixtures comply fully with BS EN 13108 'Bituminous mixtures' and its accompanying guidance notes (PD6691 Appendix B) as applicable.

Product testing complies fully with the requirements of BS EN 12697 Test methods for hot mix asphalt. Product installation and any subsequent testing is also compliant with BS 5944987 'Asphalt for Roads and Other Paved Areas'.

Certified performance



For detailed guidance on material selection, laying requirements and appropriate uses, contact our Aggregates and Asphalt division.



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