

Introduction

Mastic asphalt the ultimate building material

Mastic asphalt is the ultimate in protection for a wide range of construction applications. It offers total waterproofing integrity for roofing and tanking, acts as a tough working surface and damp-proof membrane in flooring and is ideal for paving, offering a durable wearing surface.

It is one of the world's most traditional construction materials and has continued to develop with the times, even in today's hi-tech building industry.

Today's modern mastic asphalt with its advanced polymer formulations for roofing and paving and seamless application is the finest material for flat roofs, decks and a whole range of construction applications - in fact, any situation where waterproofing integrity is vital.

In its many forms mastic asphalt also excels in flooring and paving applications where a smooth, seamless, durable surface is required.

It is installed by trained operatives who have undertaken the mastic asphalt industry's extensive training programme which lasts for a minimum of three years to NVQ Level Two/Three, or equivalent. Few in the construction industry can claim to have trained their people so thoroughly and for so long.

Polymer modified mastic asphalt can only be installed by MAC approved contractors. In this way, the entire industry can offer comprehensive guarantees with complete confidence on both labour and materials.

Most mastic asphalt applications involve roofing, both new build and refurbishment. In spite of growing competition from a wide range of alternative waterproofing membranes, mastic asphalt still remains the first choice for many architects, surveyors and building owners.



Fast track roofing with mastic asphalt

Mastic asphalt has kept pace with today's technology. Its advanced polymer formulation makes it the perfect choice for any roofing application. There is another key advantage - for larger projects mastic asphalt can be laid at speed when supplied to site in bulk by hot charge transporters and insulated dumpers.

Mastic asphalt can be delivered to site direct from the factory for instant installation. By this method one 15 tonne hot charge delivery vehicle can supply enough mastic asphalt to lay 300 square metres of material to a depth of 20mm. This ensures that a roof can be quickly and efficiently waterproofed allowing other trades on site, often within hours.



Mastic asphalt for flooring

Mastic asphalt is the ultimate flooring material, ideal for domestic or the most demanding of industrial applications.

The product has stood the test of time, out-performing almost every other type of industrial and domestic flooring material.

Its spread of applications, inherent damp-proof properties and wearing qualities make it the obvious choice for the specifier.



It can be quickly installed by a hot charge process, to which it is particularly suited with access within just a few hours of laying. Because mastic asphalt is so price competitive it is probably the most cost-effective flooring of its kind in the UK. (Ensure only British Standard grades of material are used).

Once installed, mastic asphalt offers a quality, dust free, seamless and user-friendly surface. This makes it perfect for industrial applications where there are likely to be high levels of traffic from forklifts and similar vehicles.

It is equally suitable in a domestic environment with the bonus that mastic asphalt is a proven waterproof membrane and radon gas barrier, when installed correctly as part of an approved building package. See BRE Guidance Notes CISFBL26 A3 1991 protective measures for new dwellings.

As well as being a proven damp-proof membrane, mastic asphalt provides the ideal base for carpet, vinyl or other types of smooth flooring. Its speed of application and fast cooling properties allow carpets and furnishings to be replaced within two to three hours (dependent upon ambient temperature). There are no moisture considerations or drying out times with mastic asphalt. Mastic asphalt (special grades) can also be used for flooring applications where spark resistant properties are vital when increased resistance to acid solutions is required.



Mastic asphalt for paving

Mastic asphalt paving is the finest bituminous surfacing providing the designer/specifier with a paving material with exceptional durability and waterproofing characteristics.

Its uses range from the resurfacing of the Severn Bridge to the busiest city centre carriageway and from multi-storey car parks to the surfacing of municipal market places.



Norweb Car park

The existing manufacturing process of mastic asphalt provides the specifier with total design flexibility. Smaller contracts can be supplied in block form, for remelting the required quantity on site, whilst larger contracts can be supplied via hot charge transporters carrying up to 15 tonnes of freshly made product direct from the manufacturer to the contract site. Initial cost and paving mechanisation caused the demise of mastic asphalt as

a major surfacing material but current traffic conditions coupled with many other factors, especially health and safety, have conspired to resurrect its widespread use. The flexibility mastic asphalt provides in the fields of contract size, the day time and spread of application, the wide variety of product specifications available (especially polymer and TLA 50/50 mixes), without the need for large site laying plant, make mastic asphalt the most useful and versatile high quality surfacing material available to the discerning engineer at a very competitive cost!



Mastic asphalt for tanking

When a tanking membrane fails it is difficult if not impossible to remedy or repair and will be expensive. Therefore, consideration as to the choice of waterproof membrane is paramount.

Mastic asphalt, with its seamless application is a natural material for tanking. The material provides an underground waterproofing membrane that will not degrade and one which will provide many decades of trouble-free service.

Mastic asphalt is the finest quality membrane for resisting underground moisture penetration. Its seamless qualities and proven track record of success make it the natural choice for the specifier. Installed, as with all mastic asphalt applications, by fully qualified craftsmen.



Polymers for the next millennium

For more demanding jobs, advanced polymer modified mastic asphalt is the natural choice. Its modern advanced formulation makes it one of the fastest growing construction products of its kind which is why MAC is able to offer a 10-year insurance-backed guarantee in addition to the manufacturer's extended warranties in excess of 20 years.

Each polymer modified product is produced by a manufacturing member of the Mastic Asphalt Council. When laid by a MAC contractor the guarantee covers both workmanship and materials and is available at a nominal cost.

As good as the installer

Only fully trained MAC members are permitted to install polymer modified mastic asphalt. This means that MAC is able to offer guarantees which are insurance-backed on both labour and materials.

Employees of MAC members are fully trained in the installation of mastic asphalt to ensure that the traditional craft skills are fully maintained.



Design possibilities

To the architect mastic asphalt offers limitless scope for design opportunities. While traditionally available in black, it can be specified in almost any colour and design and because it is totally seamless, mastic asphalt is ideal for roof gardens, paved areas, leisure complexes - any situation where general aesthetics have to be combined with good waterproofing.



Dover Castle - Kent

The MAC technical service

The Mastic Asphalt Council is able to offer architects and other specifiers a full technical back-up service.

It includes advice and technical support at every level plus assistance with specifications and free in-house technical seminars.

All technical advice is given free.

The manual

This manual covers a variety of detail and application possibilities for mastic asphalt.

It is divided into four colour coded key sections - Roofing, Flooring, Paving and Tanking, together with a general section which covers common elements of mastic asphalt usage.

Colour codes:-

ROOFING

FLOORING

PAVING

TANKING

C.D.M.

The drawings/details are indicative only and should not be copied as scale drawings.