

# Introduction

Mastic Asphalt, some with BBA certification, has been developed for use on rooftop car parks, HGV Decks, Railway Platforms and Pavements for Over 100 years, with this experience in the use of mastic asphalt pavings it has clearly demonstrated its superior durability and waterproofing characteristics. In addition, mastic asphalt offers flame-free application and is non-flammable in service, achieving an AA Fire Rating to BS476 part 3 and a 'notional' Broof(t4) designation to BS EN 13501-5. These benefits, when coupled with the ability to be laid to any shape, width, depth, or pattern make mastic asphalt a very valuable problem solver for the design engineer.

Mastic asphalt roofing to BS 6925 Type R988 conforming to BS EN12970 or polymer modified material is used in conjunction with certain paving applications when it is necessary to provide a fully waterproof specification. Reference to detailing the waterproofing layer should be made in the roofing section of this guide and BS 8218 Code of Practice for mastic asphalt roofing.

It is recommended that a suitable separating membrane should be used with many mastic asphalt paving applications. The asphalt manufacturer recommendations should be sought.

The decline in the specification and use of Trinidad Lake Asphalt in conventional road mixes is due almost entirely to the manufacturing difficulties in high volume manufacturing plants. No such constraints exist in the manufacture of mastic asphalt and engineers can specify TLA mixes confident in the knowledge that their requirements can be achieved economically.

The versatility of mastic asphalt is legendary, a reliable well tested product exhibiting all the characteristics of flexibility which is durable, waterproof and has the potential for recycling.



Paving & Car Parks

## Benefits of mastic asphalt paving

### Waterproofing characteristics

Mastic asphalt will adequately resist the passage of water and water vapour to the inside of the building. It is completely impervious to water.

### Chemical resistance

Mastic asphalt has good chemical resistance to hydraulic fluids and aqueous solutions of acids and alkalis. It is also unaffected by contact with an alkaline substrate and has good short term resistance to minor spillages of oil, petrol and grease contamination.

### Fire resistance

When applied to a suitable substrate, mastic asphalt achieves the highest rating (FAA) when tested as described in BS476: Part 3, 'notional' BROOF (t4) classification to BS EN 13501-5: 2005.

### Frost

Mastic asphalt is unaffected by frost and de-icing salts.

### Wheel tracking

Less than 1mm/hour @45°C.

### Skid resistance

Appropriately finished mastic asphalt systems offer excellent skid resistance properties:

Sand rubbed finish	Crimped finish
TRRL Rubber (dry 84)	TRRL Rubber (dry 87)
TRRL Rubber (wet 55)	TRRL Rubber (wet 74)