

ShieldFLEX Polymer Modified Mastic Asphalt

Description

Mastic Asphalt is traditionally the ultimate protection for a wide range of construction applications and offers total waterproofing integrity for any almost any waterproofing or hard wearing applications. Whilst being one of the longest used construction materials it has continued to develop with the times and even in today's fast-track building industry polymer modified mastic asphalt remains the unrivaled choice for many designers and specifiers. This is due to its flexibility of use and durability, it can be applied on various areas such as roofs, balconies, rooftop car parks, lorry decks, below-ground tanking, podium decks, train station platforms, roadside pavements and bridges to name but a few.

It is proven to be the most cost-effective waterproofing membrane, lasting an average of 60 years if maintained correctly. Installation can be carried out by Shield Membranes trained operatives or approved contractors who have undertaken the mastic asphalt industry's extensive apprenticeship program which lasts for a minimum of three years to NVQ Level 2/3, or equivalent.

Shield Membranes polymer modified mastic asphalt can be used in combination with other Shield products and systems such as ShieldLIVING, ShieldBLU, ShieldSCAPE and more. This is demonstrated perfectly on areas such as podiums and rooftop car parks where waterproofing is critical, and there is a need for it to be hard wearing and have a high compressive strength and work in conjunction for area finishes.

Technical Properties

Weather tightness:

- The system will adequately resist the passage of moisture into the structure and enable a structure to comply with the requirements of the national Building Regulations.
- The system is impervious to water and will give fully sealed waterproofing capable of accepting minor structural movement

Properties in Relation to Fire:

- Have similar properties in relation to fire as the traditional grades of mastic asphalt described in BS 8218 : 1998
- When fully supported on concrete substrate, exposed mastic asphalt has a 'Notional' BROOF (t4) classification to BS EN 13501-5 : 2005

Resistance to wind uplift:

- When applied to an air-impermeable deck, the system will resist the effects of wind suction likely to occur in service.

Resistance to mechanical damage:

- The system can accept, without damage, the thermal movement likely to occur in practice, and the limited foot traffic and light concentrated loads associated with installation and maintenance.
- Reasonable care is required to avoid prolonged point loading by heavy and/or sharp objects.

Maintenance and repair:

- Areas must be the subject of regular inspections to ensure that unwanted vegetation and other debris are cleared from the ShieldFLEX mastic asphalt and drainage outlets

Durability:

- The system will have a service life in excess of that of conventional grades of mastic asphalt used in roofing applications

Disclaimer

The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Shield Membranes reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice.

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LEADING ROOFING EXCELLENCE



ShieldFLEX Polymer Modified Mastic Asphalt

ShieldFLEX R

ShieldFLEX R waterproofing system is a polymer modified roofing grade of mastic asphalt, specifically designed for flat roofs and podiums and has been designed, tested and certified as being durable enough to exceed the design life of any roof in which it may be installed while achieving a fire rating of Broof(t4).

The polymer modification allows the product to retain its integrity at lower temperatures, and on areas with more movement than that which conventional roofing grades of Mastic asphalt could withstand. When installed correctly, ShieldFLEX R is an extremely durable waterproofing system and allows for far greater traffic and usage than other waterproofing systems. We can provide ShieldFLEX R in palletised blocks or in a hot charge mixer ready for install. We can also provide a variant that can be given an unbroken terrazzo finish of internal use.

ShieldFLEX R Mastic Asphalt can be used on horizontal, sloped and vertical surfaces.

Technical Profile

SPECIFIC GRAVITY

2.0 - 2.4

CURING TIME

Light Foot Traffic: Full Traffic:

30-50 Minutes 24 Hours

LAYING THICKNESS

10mm - to any thickness

LABORATORY TESTING

WATER VAPOUR PERMEABILITY

0.067% (gm/day)

Flash Point

< 300°C

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ShieldFLEX Polymer Modified Mastic Asphalt

ShieldFLEX R Tanking

ShieldFLEX R Tanking System, is a a polymer-modified mastic asphalt. The system is for use externally and in sandwich constructions for waterproofing and above and below ground damp-proof applications and has been designed, tested and certified as being durable enough to exceed the design life of any structure in which it may be installed.

The polymer modification allows the product to retain its integrity at lower temperatures, and on areas with more movement than that which conventional roofing grades of Mastic asphalt could withstand. When installed correctly, ShieldFLEX R Tanking system is an extremely durable waterproofing system and allows for far greater traffic and usage than other tanking systems. We can provide ShieldFLEX R tanking system in palletised blocks or in a hot charge mixer ready for install.

ShieldFLEX R Mastic Asphalt can be used on horizontal, sloped and vertical surfaces.

Technical Profile

DENSITY (approx)

2,100-2,150kg/m³

CURING TIME

Light Foot Traffic: Full Traffic:

30-50 Minutes 24 Hours

SPECIFIC GRAVITY

2.0 - 2.4

LAYING THICKNESS

10mm - to any thickness

LABORATORY TESTING

WATER VAPOUR PERMEABILITY

0.067% (gm/day)

Flash Point

< 300°C

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ShieldFLEX Polymer Modified Mastic Asphalt
ShieldFLEX P

ShieldFLEX P waterproofing system is a polymer modified paving grade of mastic asphalt, specifically designed for elevated decks, car parks, lorry decks, bridges, podiums and more. It has been designed, tested and certified as being durable enough for commercial traffic.

The polymer modification allows the product to retain its integrity at lower temperatures, and on areas with more movement than that which conventional roofing grades of Mastic asphalt could withstand. When installed correctly. We can provide ShieldFLEX P in palletised blocks or in a hot charge mixer ready for install.

ShieldFLEX P Mastic Asphalt can be used on horizontal, sloped and vertical surfaces.

Technical Profile

DENSITY (approx)

 2,100-2,150kg/m³

CURING TIME

Light Foot Traffic: Full Traffic:

30-50 Minutes 24 Hours

SPECIFIC GRAVITY

2.0-2.4

LAYING THICKNESS

15mm - to thickness

LABORATORY TESTING

WATER VAPOUR PERMEABILITY

0.067% (gm/day)

COMPRESSIVE STRENGTH (5 DAYS)

BS EN 13892-2

 20 N/mm²

Flash Point

< 300°C

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