

IKO Permaphalt

Product Information

IKO Permaphalt is a specially formulated mastic asphalt roofing, using advanced polymer technology to give the ideal combination of long term durability, increased fatigue resistance and improved temperature stability.

Permaphalt is supplied in nominal 20 kg blocks, (similar to traditional asphalt) wrapped in printed film bearing the product name. Storage is the same as for traditional asphalt. Alternatively, Permaphalt can also be supplied directly to site in purpose built hot charge transporters capable of holding up to 18 tonnes of molten material.

	Product Code
Block (20kg)	4180000
Hot Charge	5180000



Vapour resistivity

The Vapour resistivity is very high and can be assumed to be not less than 100,000 MN/g.

Resistance to biological attack

Permaphalt is vermin proof and rot proof.

Resistance to water

Permaphalt is impervious to water.

Resistance to Fire

Permaphalt fulfils the external fire resistance required for a roof covering, and achieved the highest rating (FAA) when tested as described in BS 476: Part 3.

Resistance to movement

Permaphalt is thermoplastic and is capable of accommodating normal movements encountered in well-designed building structures.

Structural movement joints within the roof will require the incorporation of a proprietary expansion joint which is compatible with a mastic asphalt roof waterproofing system.

Coefficient of cubic expansion

The coefficient of cubic expansion is $15 \times 10^{-5}/^{\circ}\text{C}$.

Use

IKO Permaphalt can be applied to form a continuous waterproof covering over flat, sloped or curved surfaces. It can be worked round pipes, roof lights and other projections to provide a completely seam free membrane. It is suitable for insulated warm roofs, un-insulated cold roofs and inverted/green roof configurations.

Features & Benefits

- Complies with BS EN 12970:2000 – Mastic asphalt for waterproofing
- BBA Certified (03/4009)
- Advanced polymer modification
- Fire Performance achieving BS 476: Part 3: FAA
- Completely seamless waterproofing
- Long term durability
- Enhanced product stability across a wide temperature range
- Traditional application
- Manufactured under a BS ISO 9001 Quality Assurance Scheme
- 20 Year Insurance Backed System Guarantee

Durability

A Permaphalt mastic asphalt roof, properly designed and maintained, can be expected to provide many years of trouble-free service. Good design can also extend the life of a mastic asphalt roof. *“Mastic Asphalt roofing properly designed and laid should be capable of lasting 50-60 years.” BRE Digest 144.*

Application

Permaphalt should be installed generally in accordance with IKO installation instructions, BS 8218: 1998 and BS 8000:Part 4, on to IKO Black Sheathing Felt separating layer. Structural decking should comply with the recommendations in BS 6229 (flat roofs with continuously supported coverings) and be laid in accordance with the relevant codes of practice. Where using insulation in a warm roof configuration, the insulation should be laid on to a suitable vapour control layer.

Permaphalt blocks should be re-melted in a purpose made asphalt mixer. When it has attained a molten condition it should be agitated continuously to ensure a uniform consistency. When re-melting do not exceed a maximum temperature of 240°C.

Permaphalt is applied using a wooden float to a uniform thickness. On horizontal areas, Permaphalt is usually laid in two coats to a nominal thickness of 20 mm on a separating membrane of Black Sheathing Felt. In buried situations, such as roof gardens, the thickness is increased to 30 mm laid in 3 coats. Detail work and surface finishes should be installed in accordance with the relevant codes of practice, client requirements and IKO specifications.

Surface Protection

With the exception of vertical and steeply sloping work, the finished Permaphalt must be sand rubbed to reduce the incidence of crazing.

A protective surface should be applied to all flat areas using a suitable solar reflective paint, stone chippings or promenade surfacing.

Resistance to loading

Permaphalt can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance operations. Where loadings exceeding this are envisaged, promenade tile surface protection must be specified.

Maintenance

As with all roofing systems, proper maintenance is essential to the long-term performance of the Permaphalt installation.

Permaphalt roofs should be inspected twice yearly, preferably in the spring and autumn, and/or after extremes of weather conditions. Inspections should be carried out generally in accordance with BS 6229

Guarantee

Permaphalt is covered by a 20 Year IKO Systems Insurance Backed Guarantee.

Disclaimer

Whilst every precaution is taken to ensure that the information given in this literature is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded.

IKO reserve the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was issued.