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Version 1

PARABIT Hot Melt

Hot liquid applied bitumen waterproofing membrane

Part of BMI

icopal

DEFINING DURABILITY

The Parabit Hot Melt Waterproofing Systems

Parabit Hot Melt membranes consist of an SBS modified, liquid applied bitumen, reinforcement and a protection sheet.

Installed directly to the structural deck, Parabit Hot Melt membranes are ideal for inverted warm roof applications which typically include the subsequent installation of ballast and green or blue roof layers as part of a full system build up.

Installed in either single or double layer applications, Parabit Hot Melt waterproofing membranes provide an alternative solution to traditional warm roof build ups.

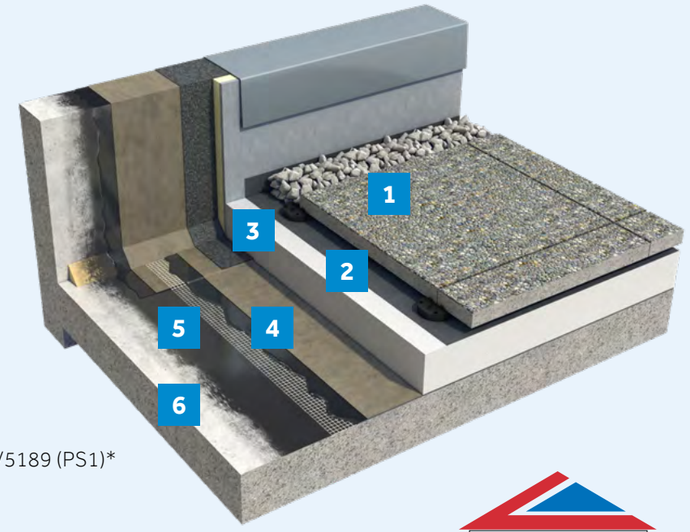
Scan the code to access our full range of **flat roofing services and technical support**

www.bmigroup.com/uk/support/flat-roofing-services/

SYSTEM OVERVIEW

PARABIT SOLO: Hot Melt membrane

1. **Ballast layer (by others)**
2. **Ravatherm XPS X MK Water Flow Reducing Layer**
3. **Ravatherm XPS X 300SL insulation**
4. **Parabit Solo Hot Melt membrane**
5. **Siplast Primer**
6. **Concrete deck**



VALIDATIONS

- British Board of Agrément Certificate (BBA) - 15/5189 (PS1)*
- Environmental Performance Declaration (EPD-Kiwa-EE-215962-EN)
- External Fire Performance B_{ROOF} (t4)
  - Prescribed systems classified in accordance with BS EN 13501-5**
  - Systems where the top layer is in accordance with 2000/553/EC: Commission Decision of 6 September 2000 implementing Council Directive 89/106/EEC as regards the external fire performance of roof coverings***

BBA BRITISH BOARD OF AGRÉMENT CERTIFICATE No. 15/5189

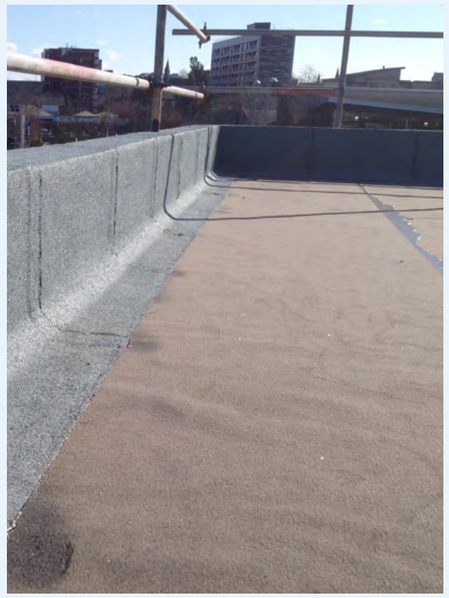
GUARANTEE - UP TO 30 YEARS*

x1

Comprising a **single layer** of Parabit Hot Melt Compound

Applied at a minimum coverage rate of **3.0 kg/m²**

The PARABIT SOLO membrane incorporates a **resin coated glass fibre mesh** and an SBS modified bitumen membrane.



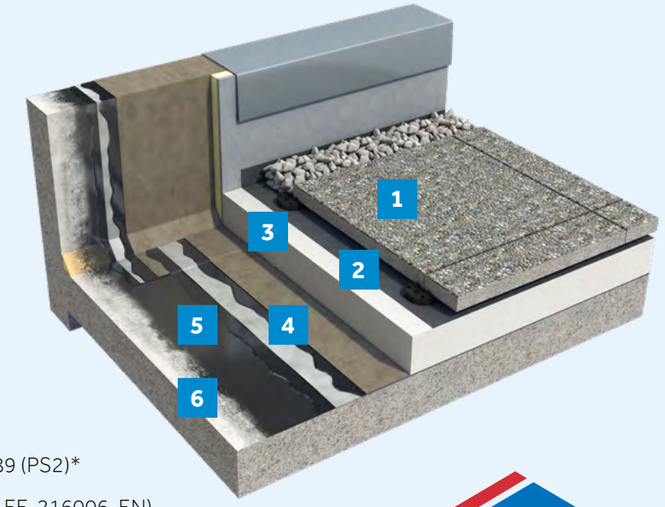
*Guarantee type and duration is subject to Icopal specification and terms and conditions

**Refer to BMI Technical Services Department for confirmation of prescribed systems

*** The term roof covering is used to describe the product which constitutes the top layer of the roof assembly

PARABIT DUO: Hot Melt membrane

1. **Ballast layer (by others)**
2. **Ravatherm XPS X MK Water Flow Reducing Layer**
3. **Ravatherm XPS X 300SL insulation**
4. **Parabit Duo Hot Melt membrane**
5. **Siplast Primer**
6. **Concrete deck**



VALIDATIONS

- British Board of Agrément Certificate (BBA) - 15/5189 (PS2)*
- Environmental Performance Declaration (EPD-Kiwa-EE-216006-EN)
- External Fire Performance B_{ROOF} (t4)
  - Systems where the top layer is in accordance with 2000/553/EC: Commission Decision of 6 September 2000 implementing Council Directive 89/106/EEC as regards the external fire performance of roof coverings**

BBA BRITISH BOARD OF AGRÉMENT CERTIFICATE No. 15/5189

GUARANTEE - UP TO 35 YEARS*

x2

Comprising **a double layer** of Parabit Hot Melt Compound

Applied at a minimum total coverage rate of **6.0 kg/m²** (3.0 kg/m² per layer)

The PARABIT DUO membrane incorporates a **spun-laid polyester reinforcement** and an SBS modified bitumen membrane

*Guarantee type and duration is subject to Icopal specification and terms and conditions

**The term roof covering is used to describe the product which constitutes the top layer of the roof assembly

CASE STUDY

Waterproofing Heatherwood Hospital: A Multi-System Solution

Heatherwood Hospital is Frimley Health's new £100 million planned care facility in Ascot, designed for efficiency and aiming to reduce its carbon footprint by 60%. The facility features a 1,500m² green roof and solar panels, demanding a high-performance waterproofing strategy.

Main Contractor Kier appointed MAC Roofing & Contracting Ltd for the specialist roofing package. MAC challenged the initial specification for a single system, proposing a combination of BMI Icopal systems to meet performance requirements, accelerate installation, and secure a single-point warranty for the client, Frimley Health NHS Foundation Trust.

Working collaboratively, the following was specified:

- BMI Icopal Parabit Solo Hot Melt for the main roof and podium inverted assemblies, applied directly to the concrete deck.
- BMI Icopal Rootbar system under the green roofs.
- BMI Icopal Sealoflex Ultima Premium Cold-Applied Liquid for complex detailing.

The project's complexity lay in the demanding detailing around numerous mechanical plant plinths. MAC used a two-team approach for the Parabit Solo hot melt and inverted roof assembly, which was crucial for quickly achieving a watertight envelope ahead of the program, allowing internal trades to start early. All flat roofing was electronically tested as part of a rigorous QA process.

Sustainable Repositioning at The Acre, Covent Garden

The Acre, formerly 90 Long Acre, is a landmark 240,000 sq ft office redevelopment in Covent Garden. Through a "Cut & Carve" approach, over 80% of the original structure was retained, halving the embodied carbon compared to a new-build. The project targets net zero carbon in operation, achieving BREEAM (Building Research Establishment Environmental Assessment Methodology) Outstanding and WELL Platinum.

The roof was critical to these ambitious goals, requiring a high-performance waterproofing strategy. BMI Icopal worked in conjunction with MAC Roofing and Contracting Ltd to the 7,000 m^2 roofscape.

MAC used a multi-system approach: Parabit Solo Hotmelt and Sealoflex Ultima Premium were the primary systems, used in conjunction with a Sky Garden green roof and a blue roof rainwater attenuation system.

The roof features:

- Green Roofs with London Wildflower mix to boost biodiversity and a PV Wildflower mix to cool solar panels and increase efficiency.
- A Blue Roof on Level 9 that stores rainwater using gravity for controlled, energy-free discharge, protecting the Parabit hot melt membrane from continuous hydrostatic pressure.

The complex integration of these systems on an existing structure required meticulous planning to balance weight, thermal performance, and wind uplift. The team successfully executed complex detailing around over 100 penetrations on the blue roof area and created a full-scale sample rig to guarantee the quality of the intricate work.

The refurbished building has welcomed the BSI as new tenant to the top two floors.

CASE STUDY

SOLUTION OVERVIEW

Features

- **Waterproofing membrane fully bonded to the substrate**
- **SBS polymer modification**
- **Ideal solution for inverted roofs above a concrete deck**
- **Suitable for inverted roofs incorporating zero and absolute zero falls**
  (as defined by the latest edition of BS 6229 and supported by the BBA Certification)
- **Complimentary ancillary products**
- **Suitable below blue and green roofs with the incorporation of Rootbar Capsheet**

Benefit:

The Parabit Hot Melt membrane is fully adhered to the prepared & primed substrate eliminating the possibility for water to track beneath the membrane across the roof.

Large roof areas can be waterproofed quicker than alternative solutions -Follow on trades reliant on a waterproofed deck can commence internal works earlier in the construction programme.
Detailing (e.g. upstands and plinths) can be completed separately to the main field area application. The Parabit Hot Melt membranes are complimented by extruded polystyrene (XPS) or cellular foam insulation boards and a water flow reducing layer, prior to the application of the specified ballast or protection layers.

LRWA
Liquid Roofing and Waterproofing Association

www.lrwa.org.uk

Icopal is a member of the Liquid Roofing and Waterproofing Association (LRWA).

As an association, LRWA's guiding principle is to ensure that clients obtain high quality liquid-applied roofing, through a partnership of quality assured manufacturers and contractors.

The LRWA recently published a new code of practice for hot melt membranes (Issue 2.1, April 2025) aimed at providing guidance to specifiers on topics such as health & safety, substrate preparation, product application, and on site quality control, repair and maintenance.

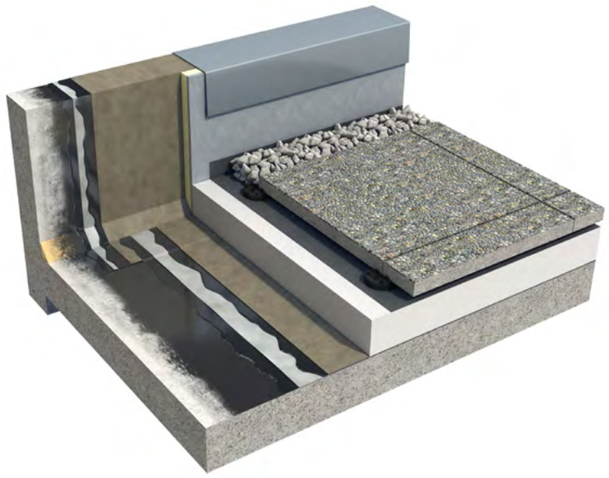
A copy of the code of practice can be found at www.bmigroup.com/uk or at www.lrwa.org.uk

TYPES OF ROOF

Inverted Warm Roof

Also known as 'upside-down' roofs, inverted warm roofs feature thermal insulation placed above the primary roof waterproofing solution. This design ensures the roof remains at a temperature similar to the building's interior, including roofs laid to zero and absolute zero falls as defined in BS 6229.

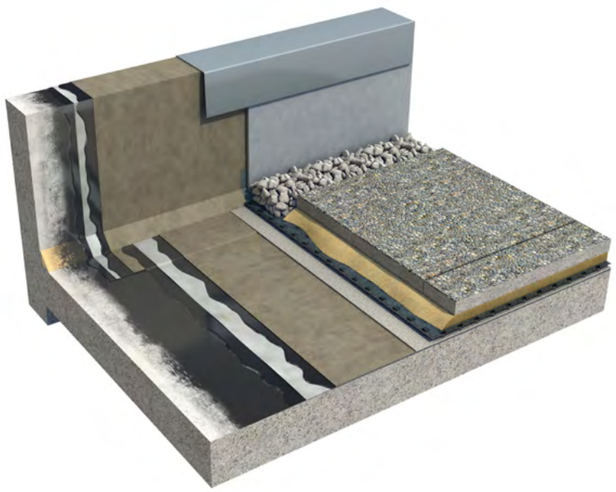
Due to the insulation's position, it must be water-resistant and adequately ballasted for stability against flotation and wind uplift, necessitating a robust roof deck capable of supporting the increased load.



Plaza / Podium Decks

Many modern buildings incorporate landscaped or paved areas above basement or subterranean zones, such as car parks.

These spaces serve as recreation or circulation routes between buildings and, as roofs, necessitate a robust waterproofing system.

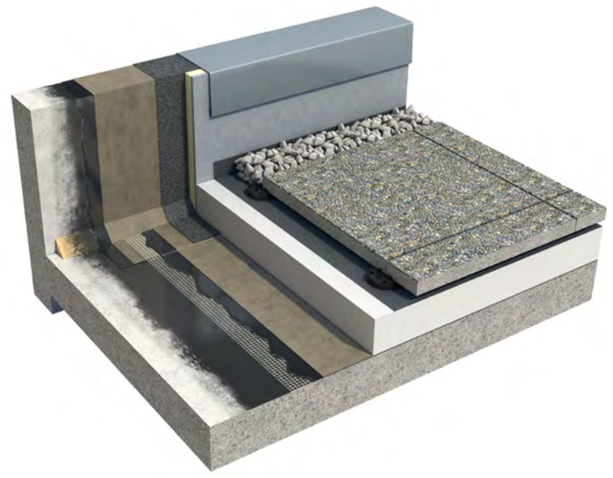


Terraces / Balconies

A balcony is generally situated on the outside of a building, with access provided through doors and enclosed by an appropriate parapet or handrail.

Terraces, conversely, tend to be areas located within the building's structural footprint, offering recreational access for public foot traffic.

For further information please refer to BS 8579 - Guide to the design of balconies and terraces.

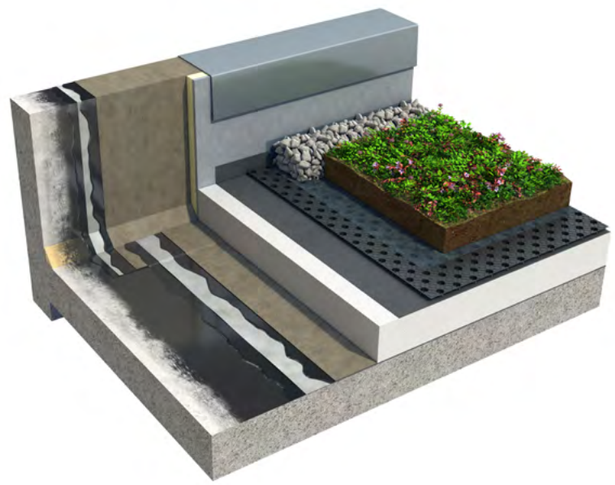


Green & Blue Roofs - Extensive or Intensive

Green roof build-ups can be installed above the completed hot melt waterproofing layer, acting as ballast and a water attenuation system.

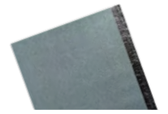
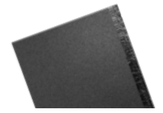
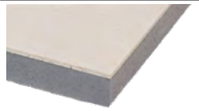
For further assistance on green roofs, please contact BMI's Technical Services Department.

Icopal is a member of the Green Roof Organisation (GRO).



Product Name	Code	Unit Size	Coverage rate	Description	
Parabit Duo					
Power Elastomeric 250 Sand	10001120	16 x 1m	Approximately 14.8 m2 / roll**	A polyester reinforced SBS-modified bitumen membrane used as a protection sheet with a sand finish to upper and lower surfaces	
Parabit Hot Melt Compound (Top Layer)	10037851	10kg	3kg/m²	An SBS modified bitumen intended for use with a reinforcement and protection sheet to create a waterproofing membrane developed for use on inverted roofs	
Parabit Duo Reinforcing Fabric	10003100	100 x 1m	Approximately 92.5 m2/roll**	A white polyester reinforcement used in conjunction with the Parabit Hot Melt Compound and protection sheet to create a waterproofing membrane specifically developed for use on inverted warm roofs	
Parabit Hot Melt Compound (Base Layer)	10037851	10kg	3kg/m²	An SBS modified bitumen intended for use with a reinforcement and protection sheet to create a waterproofing membrane developed for use on inverted warm roofs	
Siplast Primer	10035722	25L	0.1 - 0.3 litres/m²*	A low viscosity priming solution consisting of elastomeric bitumen and hydrocarbon solvent	
Parabit Solo					
Power Elastomeric 250 Sand	10001120	16 x 1m	Approximately 14.8 m2 / roll**	A polyester reinforced SBS-modified bitumen membrane used as a protection sheet with a sand finish to upper and lower surfaces	
Parabit Hot Melt Compound	10037851	10kg	3kg/m²	An SBS modified bitumen intended for use with a reinforcement and protection sheet to create a waterproofing membrane developed for use on inverted warm roofs	
Parabit Solo Reinforcing Grid	20000358	50 x 1m	Approximately 46.25 m2 / roll**	A white glass fibre, open grid reinforcement used in conjunction with the Parabit Hot Melt Compound and protection sheet to create a waterproofing membrane specifically developed for use on inverted warm roofs	
Siplast Primer	10035722	25L	0.1 - 0.3 litres/m²*	A low viscosity priming solution consisting of elastomeric bitumen and hydrocarbon solvent	

*Subject to substrate porosity ** Figure shown represents flat roof area coverage excluding overlaps

Product Name	Code	Unit Size	Description	
Expansion Joints				
Neodyl Joint Strip	10001420	330mm x 10m	Manufactured from materials with exceptional levels of elasticity to enable its function as waterproofing for expansion joints within concrete substrates in conjunction with the Parabit Hot Melt membrane	
Cordon Neodyl	20011294	10m		
Additional Membrane Options				
Rootbar Capsheet	10001459	8 x 1m	A mineral finished polyester reinforced, SBS-modified bitumen membrane with a mineral upper and film lower surface finish incorporating root inhibiting properties intended for use above the installed Parabit Hot Melt membrane	
Rootbar Sanded	10001441	8 x 1m	A polyester reinforced SBS-modified bitumen membrane with sand finishes to both upper and lower surfaces incorporating root inhibiting properties intended for use as a substitute for Power Elastomeric 250 Sand in green roof systems	
Thermaweld FireSmart	10001243	7 x 1m	A polyester reinforced SBS-modified bitumen membrane with a mineral upper and film lower surface finish for use as a torch applied capsheet at details as part of the Parabit Solo Hot Melt membrane	
Insulation				
Ravatherm XPS X 300SL 50mm	21000072	1250 x 600mm	An extruded polystyrene insulation board for use on inverted flat roofs in conjunction with Ravatherm XPS X MK water flow reducing layer (WFRL), and suitable ballast	
Ravatherm XPS X 300SL 80mm	21000082			
Ravatherm XPS X 300SL 100mm	21000084			
Ravatherm XPS X 300SL 115mm	21000085			
Ravatherm XPS X 300SL 120mm	21000086			
Ravatherm XPS X 300SL 130mm	21000087			
Ravatherm XPS X 300SL 140mm	21000088			
Ravatherm XPS X 300SL 145mm	21000090			
Ravatherm XPS X 300SL 160mm	21000089			
Ravatherm XPS X 300SL 165mm	21000083			
Ravatherm XPS X 300SL 175mm	21000097			
Ravatherm XPS X 300SL 180mm	21000093			
Ravatherm XPS X 300SL 195mm	21000094			
Ravatherm XPS X 300SL 190mm	21000095			
Ravatherm XPS X 300SL 200mm	21000096			
Ravatherm XPS X MK	21000098	50 x 1.5m	A water flow reducing layer (WFRL) used in conjunction with Ravatherm XPS X 300SL inverted flat roof insulation board	
Ravatherm XPS X UB300	21000092	1200 x 600 x 56mm	An upstand board consisting of Ravatherm XPS x 300SL insulation faced with a 6mm fibre cement layer for use on upstands and parapet walls as part of an inverted flat roof system	

Roofs for a new era

ICOPAL

Information is accurate at the date of issue. Product information, technical standards and codes of practice are under constant review. We reserve the right to change and amend product information without prior notice. For the latest information, suitability and specification advice, please refer to our website or contact our Technical Services for product information.

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