



IKO PERMASCREED

FAST-CURING ROOF SCREED
AND LEVELLING SOLUTION



IKOGROUP.CO.UK

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WE ARE IKO

With more than 140 years' manufacturing experience, IKO is firmly established as the UK's market leader in roofing, waterproofing and insulation solutions, along with our fast-growing highways maintenance range. This hard-earned reputation has been built on a foundation of high-quality products, exemplary customer service and an unwavering commitment to driving positive change and protecting what matters to our people and the planet.

With this comes a responsibility to continue investing in our product solutions, our manufacturing facilities and our extensive team of experts to deliver excellence at every level.



MANUFACTURED IN THE UK. MADE FOR THE FUTURE.

Our strategically-located manufacturing plants around the country, supported by our nationwide network of building contractors and distributors, make IKO best placed to provide our UK-wide customers with a reliable, responsible and responsive service.

We're BES 6001-accredited, which means our products and raw materials are responsibly sourced. And all of our sites are ISO 9001 and ISO 14001-certified. This includes our Prospect Quarry plant in Grangemill, Derbyshire, which is where our hot melt, Permascreed and mastic asphalt solutions for flat roofing, roads, car parks and pedestrian walkways are manufactured.

All IKO projects are regularly monitored during installation by our dedicated Technical Services department, helping maintain full specification compliance and ensuring any site queries are handled quickly and effectively.

In addition to manufacturing these systems to the highest standard and minimising our environmental impact, we also provide dedicated project design support.

The IKO team is also on hand to provide specification advice, technical drawings, wind uplift and thermal calculations, site visits and post-project support, such as maintenance and comprehensive guarantees – a comprehensive service that is all free of charge.



IKO PERMASCREED – RAPID ACTION RESULTS, EVERY TIME

IKO Permascreed is a quick laying screed for flat roofs, walkways and vehicle decks. It is designed to provide drainage falls, as well as a stable base for waterproofing systems.

Its special formulation is designed to cure rapidly (in around an hour), enabling roofs and decks to be accessed much sooner compared to traditional cement screeds. As a result, site programmes can be streamlined and delays to other trades significantly minimised.

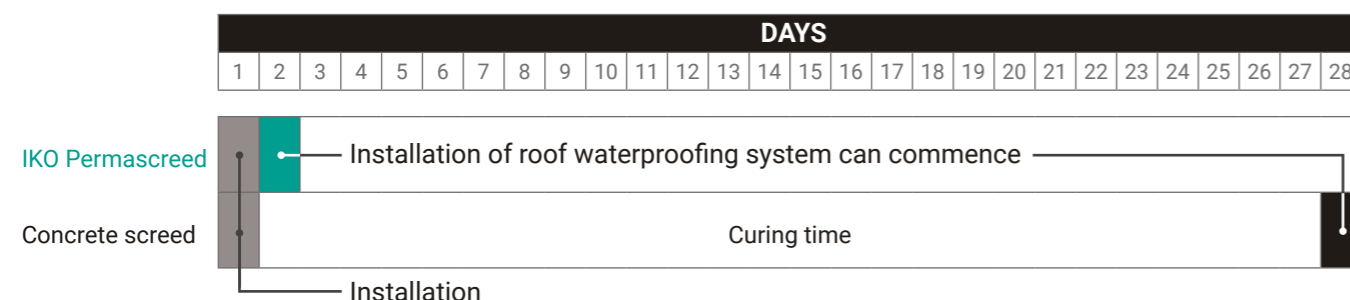
THERE IS NO MOISTURE WITHIN IKO PERMASCREED

THERE IS NO NEED TO WAIT FOR IT TO DRY...

FAST COOLING TIME (TRAFFICABLE WITHIN THE SAME DAY)

COMPATIBLE WITH A RANGE OF FLAT ROOFING AND SURFACING SYSTEMS

Installation time - IKO Permascreed vs. concrete screeds



IKO Permascreed can be used on: insulated warm roofs, cold roofs, inverted insulated roofs, green roofs, balcony/terraces, walkways/foot bridges, car parks/HGV service decks and podium decks.

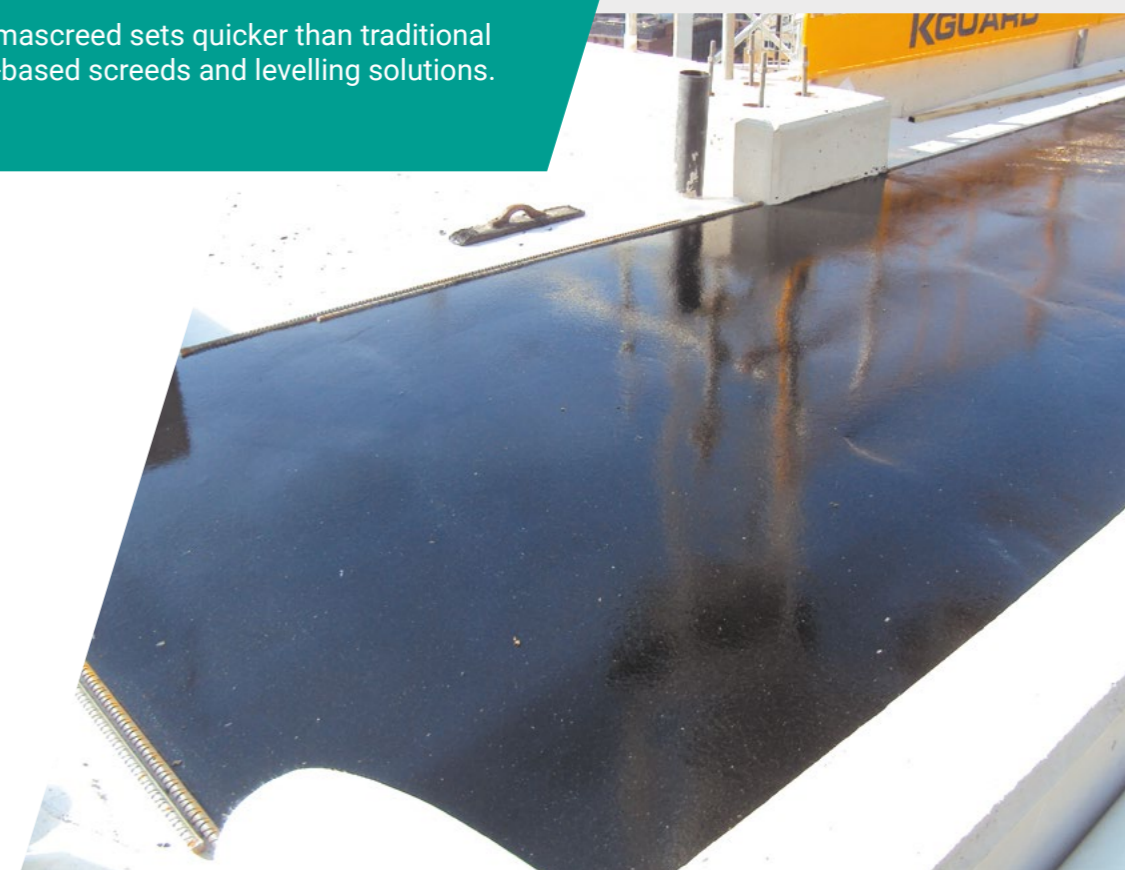
It is compatible with: mastic asphalt, hot melt, liquid coatings, single ply membranes and reinforced bitumen membranes.

Choose between three different grades:

Description	Product code	Typical thickness of individual layer*	Usage
Permascreed L (Light Duty)	Block - 44220000 H/C - 5422000A	10 - 25mm	Roofs, balconies, walkways
Permascreed M (Medium Duty)	Block - 44200000 H/C - 54200000	20 - 40mm	Roofs, balconies, walkways
Permascreed H (Heavy Duty)	Block - 44210000 H/C - 54210000	35mm + (maximum single coat thickness of 60mm)	As above plus car parks & HGV service decks

*IKO Permascreed can be installed in multiple layers as necessary to achieve the desired drainage falls or surface level

IKO Permascreed sets quicker than traditional cement-based screeds and levelling solutions.





THE IKO PERMASCREED ADVANTAGE – EXPLAINED

IKO Permascreed is more than just an effective and efficient way of levelling and creating drainage falls on flat roofs and surface decks. The system is designed to add value to buildings and deliver benefits that traditional screeds simply cannot match.

Key features and benefits – at a glance:

- ✓ Suitable for levelling uneven flat roofs and eliminating ponding
- ✓ Easily creates a range of drainage falls in line with BS6229:2018
- ✓ Can be walked on and waterproofed approximately one hour after installation
- ✓ Zero water content
- ✓ Can be used with most waterproofing systems and roof types
- ✓ Ideal for refurbishment and new build projects
- ✓ Impervious to water
- ✓ Can eliminate the need for an additional air and vapour control layer (AVCL)
- ✓ Reduces screed thickness by up to 80% compared to traditional wet screeds
- ✓ Compared to sand and cement screeds, Permascreed reduces the total weight of roof systems
- ✓ Designed to last for more than 60 years

INSTALLING IKO PERMASCREED

IKO Permascreed is normally laid directly on to the concrete substrate. The substrate must be swept clean and dry prior to installing IKO Permascreed. Priming is not required. During the initial application of the hot IKO Permascreed, the heat causes the moisture/air in the substrate to rapidly expand. This often causes small 'sinkers' to form within the finished surface as the vapour forces its way up through the Permascreed. (Note - this will not have a detrimental impact on the performance of the Permascreed or its suitability to receive the waterproofing system). If excessive blowing occurs, a IKO Glass Fibre Tissue (GFT) separating layer should be placed beneath the IKO Permascreed.

Where IKO Permascreed is applied over timber/plywood decks, a separating layer of IKO Black Sheathing Felt is required.

For warm roof systems, an AVCL can be created by using a minimum of 13mm IKO Permascreed installed on IKO Glass Fibre Tissue separating layer.



Permascreed delivered to site in purpose-built hot charge vehicles



Lugger facilitates on site transportation



Levelling techniques similar to mastic asphalts



Finished with a choice of waterproofing such as Permapark Mastic Asphalt

Decks that receive IKO Permascreed must be capable of supporting all static and imposed loads without undue deflection. Drainage should be designed in accordance with the requirements of BS EN 12056-3.



IKO Permascreed is normally supplied directly to site in purpose built hot charge transporters capable of holding up to 18 tonnes of material. Permascreed is also available in block form for re-melting on site.

NB: Permascreed H (Heavy Duty) blocks will require the site addition of 40-45% 10mm size coarse aggregate prior to installation.

DRAINAGE FALLS

BESPOKE DRAINAGE DESIGN SERVICE AVAILABLE

All flat roof surfaces, including gutter beds, should be designed with a fall of 1:40 to ensure finished drainage falls of 1:80 are achieved. Construction tolerances, permitted deviations and deflection under load must be accounted for. Where two falls intersect, a minimum finished fall of 1:80 along the mitre is recommended. For vehicle deck applications, a minimum finished fall 1:60 is required.

Certain third party-certified waterproofing and insulating systems are approved for use with zero falls however, back falls are not acceptable and should be corrected. In order to achieve a finished surface with a zero fall, a design fall of 1:80 should be used and a detailed structural analysis should account for construction tolerances, settlement and deflection under load.

To prevent ponding around rainwater outlets, they should be recessed or fitted in sumps, where practical.

When creating drainage falls, tapered gauges should be used to make sure the required drainage fall is correct. Where necessary, IKO Permascreed can be applied in multiple layers to achieve the required depth and fall.

For further guidance, please contact IKO's Technical Services team on 01257 255771 or gm.technical@iko.com



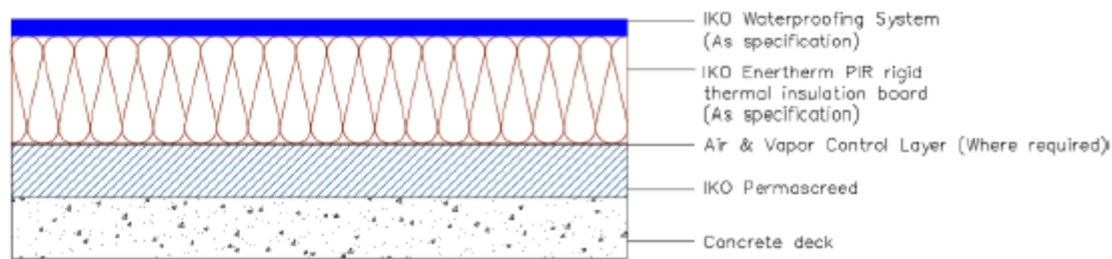
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Permascreed's flexibility and fast curing time enables precise falls to be easily created and roof finishes to be applied within just a few hours of installing the product.

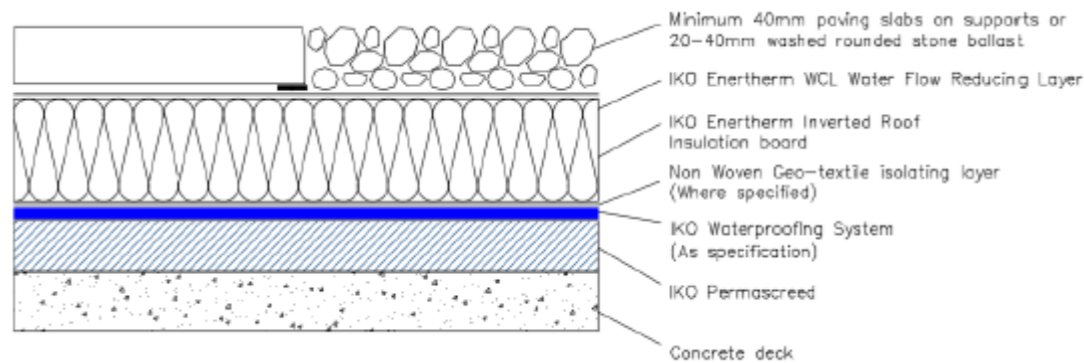
TYPICAL IKO PERMASCREED BUILD-UPS

The following drawings represent typical roof build-ups. IKO's Technical Services Team can advise on specific design elements required for individual projects.

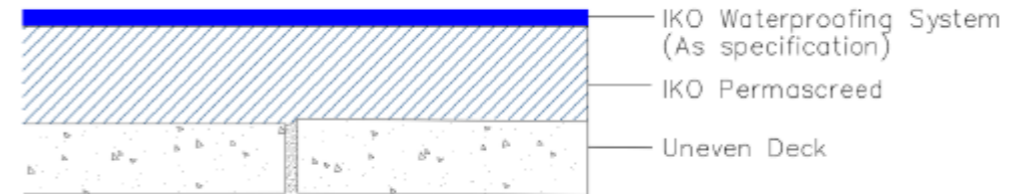
WARM ROOF



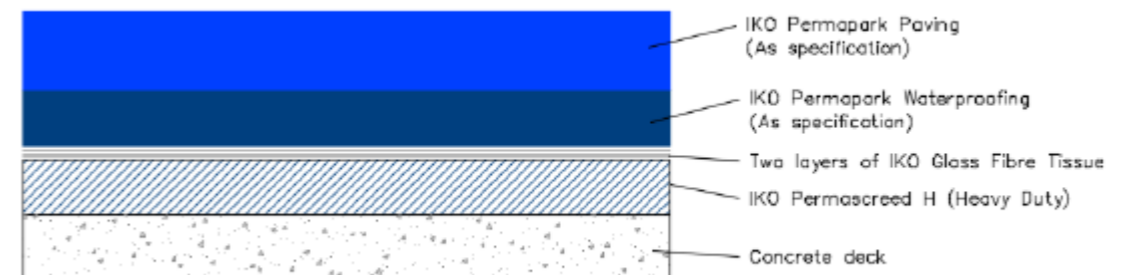
INVERTED ROOF



UNEVEN SUBSTRATES



CAR PARK / HGV SERVICE DECK



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IKO IN ACTION

CASE STUDY

Broadmarsh Shopping Centre, Nottingham

Area: 1,000m²

Broadmarsh Shopping Centre opened its doors in the 1970s during a major regeneration of Nottingham's historic Broadmarsh area. In 2019, redevelopment work, aimed at giving the centre a new lease of life, started. However, the project ground to a standstill during the pandemic and was subsequently abandoned in 2020.

The initial demolition and redevelopment work had resulted in water from outside making its way into the building and leaking into the shopping centre.

NRA Roofing & Flooring Services Ltd was tasked with providing a suitable roofing and waterproofing solution that would reduce the water ingress, manage the surface water and provide an appropriate substrate to create a tough and durable finish.

NRA faced an incredibly interesting and unique challenge due to the fact the shopping centre sits above an ancient sandstone cave. Nottingham is home to the UK's largest network of caves (around 800), with the most famous caves being located underneath the shopping centre.

A solution was therefore required that would be able to withstand numerous details, substrates and levels and be tough and resilient. NRA selected IKO as their preferred manufacturer partner for this project because of our responsive communication and high quality, industry-leading materials.



The solution

IKO Permascreed was used locally to level all of the areas and help direct water towards the outlets. Meanwhile, IKO Permapark was used to provide both a waterproofing solution and durable, trafficked surface.

There were also a number of details that required a solution that offered the flexibility and compatibility to marry up against dissimilar materials, terminating around intricate semi-permanent support rams. The IKO solutions were able to rise to this challenge.

The integrity of the site was not compromised by the programme of work. At the same time, the health and safety of the shopping centre's tenants and visitors remained number one priority. This was particularly critical due to the fact the entrance to the caves, which was previously accessed by the centre's upper mall, was relocated.

Despite the complexities, the regeneration work was a resounding success. Nottingham City Council was impressed with the IKO system and Heritage England was equally pleased that a solution had been implemented to stop water ingress.



THE IKO SERVICE

From pre-project design advice through to completion, guarantees and aftercare, IKO's experienced and friendly team will guide you through each stage of any project with an all-round support service.



Consultation

We start by listening to you, your requirements and your brief for the project



Survey

Carried out by our IKO skilled and experienced business managers



Design

Bespoke to your project requirements and the results of the survey



Solution

The result of stages 1-3 culminating in the right IKO specification for your project



Installation

Reassurance that your project will be installed by vetted, Approved IKO Contractors



Inspection

Visits to site before and during the project to achieve a quality, reliable installation



Guarantee

A long-term commitment from you deserves an equally long-term commitment from us



Aftercare

The final step, making sure your investment delivers years of faultless service.

For further information, contact IKO's Technical Services team on 01257 255771 or gm.technical@iko.com

PROTECTING WHAT MATTERS

As a responsible UK manufacturer of innovative roofing, waterproofing and insulation solutions, we aim to limit the environmental impact of our operations and lifecycle of our products, from maximising energy efficiency and minimising waste to locally sourcing raw materials and reducing carbon emissions from transportation. All IKO manufacturing sites in the UK now also run on renewable energy.

IKO continues to make significant strides forward

We have committed to a programme of continuous improvements that apply to our ways of working, manufacturing and initiatives to reduce, reuse and recycle materials. This includes investing in more sustainable packaging and recycling on-site asphalt and hot charge waste at our Grangemill plant, which enabled us to achieve 100% zero waste-to-landfill in 2021/2022.

Helping our customers meet their sustainability targets

Our R&D and product development teams continue to evolve and grow our portfolio of responsibly sourced products. Within the hot melt sector alone, IKO has been responsible for pioneering the market in terms of environmental responsibility, starting with the first UK-manufactured hot melt waterproofing system in 2002. This was followed by other leading innovations, such as zero waste packaging, ant-root and specially-formulated compounds, allowing for lower application temperatures on-site.

Meeting our wider ESG goals

We have introduced a number of initiatives that range from installing bug hotels and nurturing the talent of the future, to offering mental health support to all IKO people. However, we haven't stopped there, our efforts extend beyond our employees.

Whether it's the people who live in the communities around our manufacturing sites, or those who work, live or learn under our roofing and waterproofing solutions, we aim to protect what matters to them most and create a positive legacy.

[Learn more about our ESG journey](#)





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