INDUSTRY NEWS

FEBRUARY 2024

VUBA

Introducing VubaMac

The ultimate solution for flood-resistant paving that revolutionises traditional construction methods.

Crafted with innovative permeability technology, **VubaMac stands as the most flood-resistant paving in the world,** ensuring durability and sustainability.

Utilising 100% recycled aggregates and renewable binders, VubaMac not only reduces environmental impact but also addresses pressing issues like CO^2 emissions from concrete and VOC emissions from asphalt. Its groundbreaking No Dig approach preserves the earth, saving millions of kilograms of earth per street while eliminating the need for drainage systems.

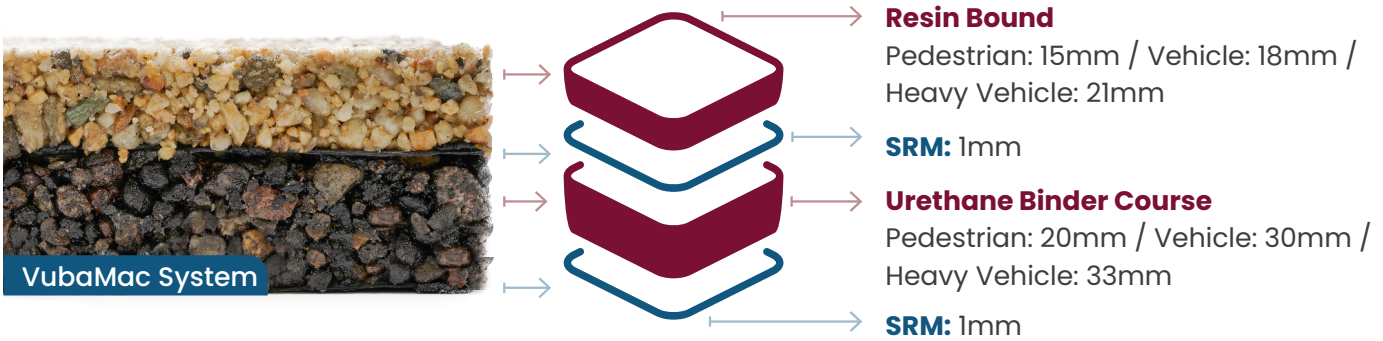
With a monolithic bond guaranteeing long-lasting performance, VubaMac surpasses conventional materials like concrete and asphalt in longevity and flexibility. Plus, its ease of application, provided by a single supplier, offers unmatched convenience, with installations completed in just one day, minimising disruption and providing a smoother, quieter alternative. Say hello to a greener, more resilient future with VubaMac.

Benefits

- Permeability
- Recycled Base
- No Dig
- Ease of Application and Less Disruption
- Longevity
- Patent Pending

What is VubaMac?

VubaMac is a flexible and highly durable environmentally friendly base designed for resin bound surfacing. Unlike alternative bases which are not designed for resin bound, VubaMac will form a monolithic bond with the resin bound surface when applied within the advised intercoat period; creating the first ever fully functional resin bound surface. The complete VubaMac system (including resin bound surface course) is to be installed at 36mm for Pedestrian Traffic and 50mm for Vehicular Traffic.



Urethane Binder Course

- A monolithically bonded polyurethane system.
- High Strength Aggregate - a specially selected, recycled, hard wearing aggregate to provide the structure for your PU Binder Course.
- NON UV Polyurethane Resin - An aromatic resin designed to provide increased durability and strength to the binder course.
- Binding Quartz - A multi sized strengthening quartz.

SRM Layers

The SRM is a Structural Reinforcement Mesh that makes up 2 layers of the VubaMac Urethane Binder Course. Adding a high strength resistance and support structure to the base.

Structural Reinforcement Mesh

- Made from Recyclable Plastic
- High Tenacity Polyester Yarns
- UV Resistant Finished Coating
- >50kN Strength Resistance

Permeability

“The most flood-resistant paving solution in the world”.

The Flood Innovation Centre

SuDS Compliant

The Sustainable Urban Drainage System scheme is important in improving the environment and supporting the drainage systems.

Making sure products are free draining and fully permeable, the investigations by the Flood Innovation Centre show that our products are 19 times more permeable than block paving! VubaMac had 0 litres of water run off. Incorporating an MOT Type 3 base to ensure full system permeability, the VubaMac requires no planning permission.

“VubaMac is the only fully SuDS compliant paving system from earth to top surface. The high flow rate of the permeable system will make huge positive contributions to the defence against floods. Helping support the water outlets and dramatically decreasing the risk of flooding from surface water.”

LAURA BIGLEY AND VIKKI KEEBLE
Co-Chairs of the **Association of SuDS Authorities (ASA)**

100% Recycled Aggregate

Our VubaMac system utilises 100% recycled Aggregate, re-purposed and saved from being a waste product. This high-quality aggregate undergoes thorough screening to ensure suitability for various applications, including the Urethane Binder Course layer of VubaMac.

EPD®
ENVIRONMENTAL PRODUCT DECLARATION

ECO PLATFORM EPD VERIFIED

No Dig

Ease of Application and Less Disruption

No Dig

VubaMac eliminates the need for heat-applied, excavated bases, reducing total depths to under 56mm for both base and resin-bound surfacing systems. This minimises excavation, requiring less machinery and offering a more sustainable choice for hard landscaping surfaces. Asphalt, a high-VOC substance, emits harmful gases during production, as does the process of cement production for concrete.

Ease of Application

- One supplier for all components.
- Installation completed in just 1 day, saving time compared to waiting for tarmac or concrete to cure.
- Complete project control; not dependent on other trades for base construction.
- Minimal mess during installation.
- Results in a flatter, more uniform surface.
- Less Disruption: Reduced noise, heavy machinery, and spillages.

Did you know...

- The direct CO^2 emissions of asphalt are around 25kg per tonne!
- Concrete causes 9% of the global CO^2 emissions.

Longevity

FULL SYSTEM WARRANTY 25 YEARS VubaMac

VubaMac's crush test results were even higher than Asphalt! We tested the strength of VubaMac to prove it's longevity and strength. In our compression test we saw that Asphalt crushed at 42kN whereas our VubaMac couldn't be crushed at all! This supports our previous tests showing that the Flexure Strength is 57% stronger. These results mean we can be confident in giving a higher warranty of 25 years! VubaMac is a good middleground between Concrete's crush strength and Asphalt's, with all the added benefits of reduced depth, recycled content and one day installation.

If you have any questions, please contact us directly:

Sean Scott
sean.scott@vubagroup.com
07508431767

Lucy Ackroyd
lucy.ackroyd@vubagroup.com
07940437760

Harry Iggleden
harry.iggleden@vubagroup.com
07534550874

VUBA