VubaMac: Application Guide

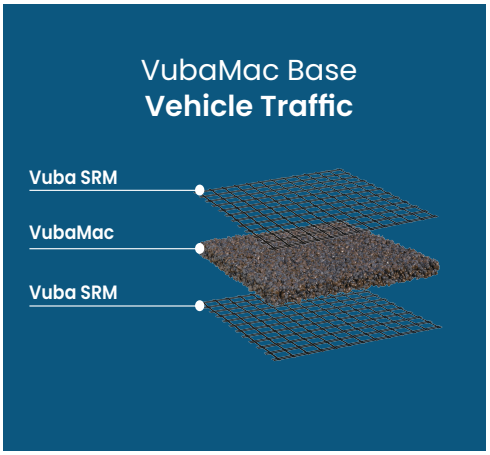
Vehicle Traffic

Product Overview:

VubaMac is an eco-friendly, durable base, specifically designed for use with resin bound, it is a superior alternative to conventional open-grade Tarmac and no-fines concrete bases commonly used in resin-bound systems.

Key Features:

Utilises waste aggregates and a superior polyurethane Elastomeric binder that outperforms traditional bitumen and cement.



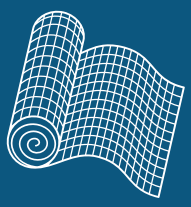
Components:



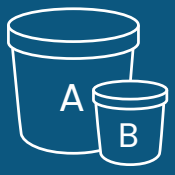
1 x 12.5kg MacMix 1-5mm



4x 25 kg Aggregate (6-10mm)



2 Layers of 1mm Structural Reinforcement Mesh (SRM)



4.5kg VubaMac Resin

Alternatively, 1 x 12.5kg of 2-5 aggregate or a 50/50 blend of repurposed aggregate consisting of 2-5mm and 1-3mm size can be used to make up the 12.5kg.

See Base Build Up Sheet for more information.

Tools Required:



Forced Action Mixer



Paddle mixer/Whisk



VubaMac Roller



Wheelbarrow or Buckets



Trowel



Spazzle/Rake/ Spreader



Cutting Equipment

(angle grinder, box cutter, shears or scissors)

Sub-Base Requirements:

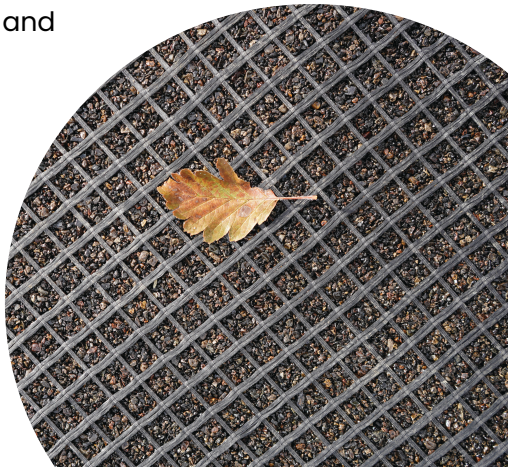
Permeable Installation

1. Sub-Base Composition:

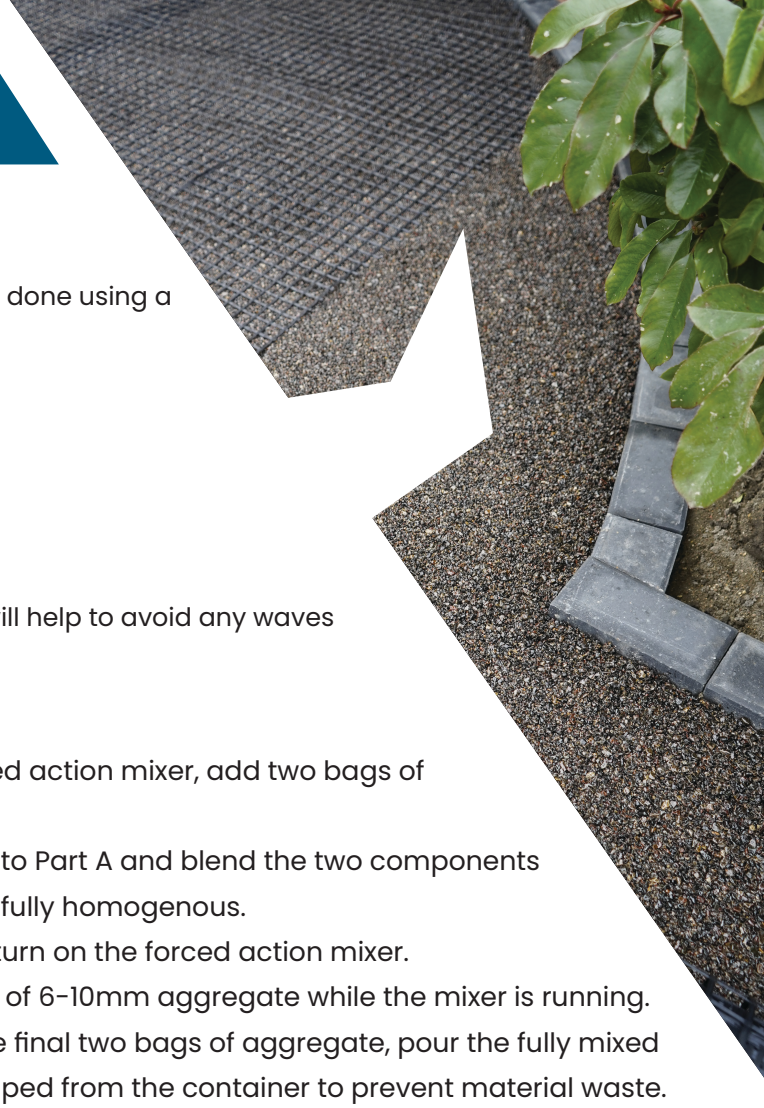
- A depth of 125- 225mm compacted MOT Type 3 aggregate. Depth would be decided depending on Sub Soil composition.
- Laid on a non-woven geotextile membrane to separate the sub-base and sub-soil.

2. Capping Layer:

- Use a 5-10mm clean aggregate as a capping layer for stability and uniform levels.



Installation Instructions



Step 1: Sub-Base Preparation

Ensure the prepared sub-base is:

- Compacted in layers for the best results, this should be done using a whacker plater or roller.
- Uniform in level.
- Has the correct depth as recommended by Vuba.

Step 2: Structural Reinforcement Mesh (SRM)

1. Roll out the SRM and cut it to the required size.
2. Ensure the SRM is tight to the edges
3. SRM Meshing can be overlapped up to 6 inches. This will help to avoid any waves being created where the mesh joins together.

Step 3: Mixing Process

1. Prepare the Aggregates: Before turning on the forced action mixer, add two bags of 6-10mm aggregate into the drum.
2. Mix the Resin: In a separate container, pour Part B into Part A and blend the two components using a paddle mixer for 90 seconds until the mixture is fully homogenous.
3. Start the Mixer: Once the resin is thoroughly mixed, turn on the forced action mixer.
4. Add Remaining Aggregates: Add the next two bags of 6-10mm aggregate while the mixer is running.
5. Incorporate the Resin: Immediately after adding the final two bags of aggregate, pour the fully mixed resin into the forced action mixer. Ensure all resin is scraped from the container to prevent material waste.
6. Once the resin has been added to the forced action mixer, add the 1.5kg MacMix 1-5mm Aggregate or 12.5kg 50/50 blend of 2-5mm + 1-3mm recycled aggregate. This is added after the resin to ensure the smaller aggregate does not settle at the bottom of the mixer.
7. Final Mixing: Allow the mixer to blend the resin and aggregate for 120 seconds, ensuring a consistent and even distribution throughout the mixture.

Step 4: Application

1. Discharge the mix into a plastic-lined wheelbarrow or similar.
2. Transport to the working area and tip onto the SRM.
    - Take care not to dislodge or create waves in the mesh.
3. Level the base mix using a spazzle or similar tool to ensure full SRM coverage.
    - Ensure the mix reaches the correct depth, the depth will depend on the type of area you are installing.
    - Vuba Mac being installed for vehicle use should be installed at 30mm.

Step 5: Apply The Second Layer of SRM Meshing vehicular traffic

1. Once the full VubaMac base has been laid:
    - Roll out the second layer of SRM meshing on top, doing this straight after laying will allow the SRM to bond to the base.
2. Settle the mesh into the system using a VubaMac Roller or similar tool.
    - Use Vuba trowel cleaner as a release agent for the roller or other compaction tools.

Step 6: Curing

- Cordon off the area and allow the system to cure fully.
- Overlay within 1 hour, temperature dependent.
- Full Chemical cure within 7 days.