Ace ResiMesh

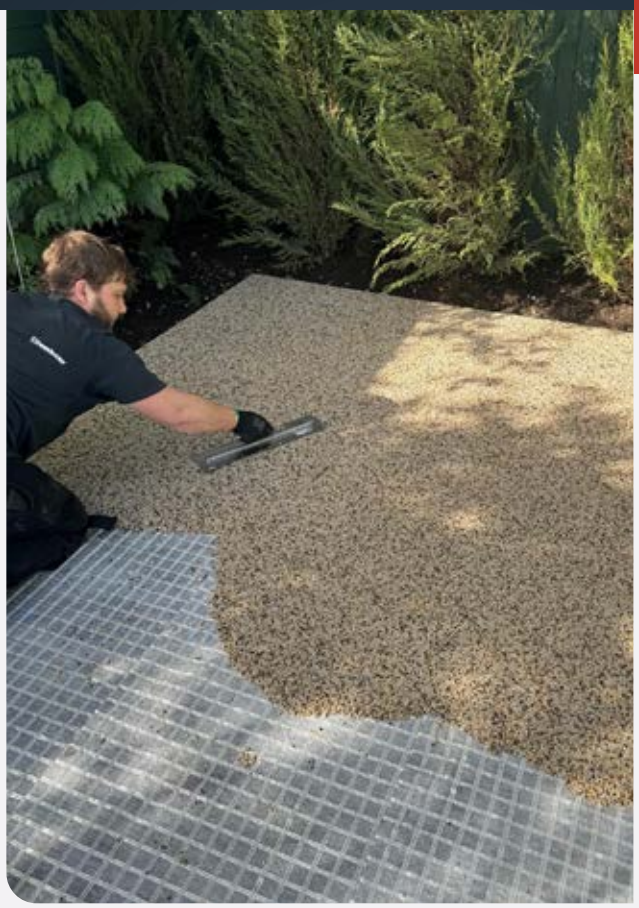
Reinforcement and Stabilisation of Resin Bound Systems

The Ace ResiMesh system offers a revolutionary, faster, and more cost effective solution for resin bound surfacing installations. This system is designed to streamline installation, eliminating the need for a structural base thereby accelerating project completion and reducing labour costs.

Ace ResiMesh is a specially engineered fibreglass reinforced composite that serves multiple functions, such as an isolation layer for overlay installations or as a replacement for traditional structural sub-bases negating the requirement for tarmac or concrete. It is particularly effective in mitigating the risk of cracking.

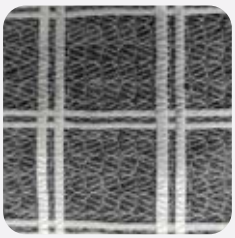
Features and Benefits:

- **Crack Mitigation:** Ideal for overlaying cracked concrete or tarmac, significantly reducing the risk of reflective cracking.
- **Ease of Installation:** The supple fabric design stays flat with no ripples when rolled out, and is easy to cut and handle on-site.
- **CWA Compliance:** Allows water to permeate through, ensuring Clean Water Act compliance.
- **Section Reduction:** Can be installed directly onto Crush & Run, eliminating the need for additional structural layers such as concrete or tarmac when used for foot traffic.
- **Thickness Efficiency:** No need to increase the depth of the resin bound surface during installation.



Functional Benefits:

- **Reinforcement (R):** Enhances structural integrity
- **Stress Relief (STR):** Reduces stress within the pavement
- **Specification:** Prevents contamination from soil



Composition:

- **Material:** Glass filament grid structure stitched onto a polypropylene backing

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ACE RESIN

Contractor-Friendly Design

Ace ResiMesh is designed to be user-friendly, enabling contractors to manage the entire resin bound installation process independently, reducing the reliance on specialised professionals for tarmac, concrete or other structural base installations.

Technical Data

Ace ResiMesh is manufactured in accordance with a Quality Management System which complies with the requirements of EN ISO 9001.

Ace ResiMesh is VOC free.

Summary: Ace ResiMesh provides a comprehensive, efficient solution for resin bound surfacing,optimizing installation speed and cost-effectiveness while ensuring superior performance and durability.

Characteristic	Unit	Value
Roll Width	Inches	39
Roll Length	Feet	325
Product Weight per roll	Pounds	88
Index Strength (1)	kN/m	100
Typical strain at failure (1)	%	3
Elastic modulus of glass filaments	Gpa	80
Polymer of Paving Fabric		pp

(1) Index property based on testing the individual glass filaments in accordance with ASTM D 3822. Index properties will differ from testing results on the final product (e.g. to ISO 10319).

Suggested Base Build Up

Please consult stuctural engineer

	New Construction – Foot Traffic	New Construction Light Vehicular	Overlay Existing Base – Foot Traffic	Overlay Existing Base Vehicular Traffic
AceBound UVR	@ ¾ inch	@ ¾ inch	@ ¾ inch	@ ¾ inch
Geo Grid	N/A	✓	N/A	N/A
Ace ResiMesh	✓	✓	✓	✓
Coarse Sand for Leveling	1/2 Inch	1/2 Inch	N/A	N/A
Crushed Stone Base	Clean well compacted minimum 4 inches	Clean well compacted minimum 6 inches	N/A	N/A
Existing Sub-Base	N/A	N/A	Concrete, tarmac, block paving etc	Concrete, tarmac, block paving etc
Geo-Textile Membrane	✓	✓	N/A	N/A

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Installation Guide

1. Ensure surface is dry, clean and clear of debris.
2. When installing on top of Crush & Run, apply a layer of grano dust at 1/2 inch to provide a level and flat surface.
3. Cut to size and shape (if curves are required).
4. Roll out the Ace ResiMesh, ensuring it's flat with no creases or kinks.
5. When rolling out adjacent fabric, overlap by 2 inches at the edge.
6. Ensure Ace ResiMesh is kept dry as residual moisture could affect the resin.
7. Install AceBound resin surfacing in the normal manor.

On Site Technical Support

Ace Resin representatives are happy to offer on-site technical support and will offer general indication of the correct method of installing an Ace Resin Ltd product. It must be remembered that Ace Resin Ltd is a manufacturer and therefore it's the responsibility of the contractor and his employer to ensure he is aware of (and implements) the correct practices and procedures to ensure the correct installation of the product. Liability for its correct installation lies with the contractor and not with Ace Resin Ltd.

Storage Conditions

Ace ResiMesh should be stored in clean, dry environment, away from contaminants. When stored correctly we expect an unlimited shelf life.

Health & Safety

Refer to health and safety data sheet.