

AceBound UVR Technical Data Sheet

Dolce Vita Italian Marble

AceBound UVR Dolce Vita Italian Marble resin bound surfacing. A luxurious option combining marble from Italy with a premium aliphatic resin, resulting in a durable, UV-stable, fast-curing, and SUDS-compliant surface with clear colours and a beautiful finish.

Italian luxury at it's finest



Description

The resin bound UV-stable aliphatic surfacing system combines high-quality Italian marble that has been tumbled, rather than crushed, to achieve a superior finish. This luxurious surface is not only visually appealing but also SUDS (Sustainable Urban Drainage Systems) compliant, allowing for efficient water drainage.

Benefits

- Aliphatic resin will not discolour or degrade when exposed to sunlight (tested to BS EN ISO 16474-3 method A, cycle 1)
- A range of 8 colours to suit every project
- Specially selected tumbled Italian marble, as opposed to crushed marble, for a superior finish
- High slip resistance (tested to BS 8204-62008-A1:2010 appendix B)
- Fully SuDS compliant water permeability up to 90ltrs/m2/second
- Low VOC (Volatile Organic Compounds)
- Suitable for vehicular traffic, up to 3.5 tonnes: Driveways, car parks, footpaths, patios, pool surrounds, exterior kitchens and all outdoor spaces
- Restricts weed growth therefore very little maintenance
- Optimum resin to aggregate ratio - no primer required
- Manufactured in the UK using high grade raw materials with low monomer content



Manufactured to **UKAS ISO 9001, 14001** to provide quality assurance.

Furthermore, this surfacing system optimizes the ratio between resin and marble, resulting in a balanced combination of flexural and compressive strength. This means that the surface can withstand both bending and compression forces, making it highly resilient and suitable for various applications.

In summary, the resin bound UV-stable aliphatic surfacing system offers a luxurious and visually appealing solution. With its tumbled Italian marble, SUDS compliance, resistance to weather-induced discoloration, and optimized resin-to-marble ratio for strength, it provides a durable and attractive surface for a range of outdoor spaces.



Quality and Testing

All products are quality controlled in line with UKAS ISO 9001:2015 Quality Management System standard.

The performance of the resin binder as part of a resin bound system will meet the industry guidance notes 2021.

Resin bound for external application guidance is produced and issued by industry leading experts feRFA (the Resin Flooring Association) www.ferfa.org.uk.

Suggested base Build Up

	Pedestrian 	Vehicular 
Acebound UVR Resin bound Dolce Vita Italian marble	18mm resin bound (4-8mm marble)	18mm resin bound (4-8mm marble)
Binder Course*	50mm A/C 14 tarmac (porous) Max 100.150 pen BS EN13108-1:2006	70mm A/C 14 tarmac (porous) Max 100.150 pen BS EN13108-1:2006
Base Course	N/A	N/A
Type 1/Type 3 Sub-base	150mm type 1/type 3 (non-frost susceptible) in well compacted layers to SHW clause 805 or 4/20mm & 4/40mm crushed aggregate to BS EN12620	175mm type 1/type 3 (non-frost susceptible) in well compacted layers to SHW clause 805 or 4/20mm & 4/40mm crushed aggregate to BS EN12620

* Use of AC14 open graded asphalt (macadam) maximum 100/150 pen binder is recommended for pathways, driveways and car parks to **BS EN 13108-1**. This will reduce the risk of cracking.

A capping layer may also be required depending on the sub-grade condition. The build-up may require an impermeable membrane to carry water to infiltration/storage system/soakaway or a geotextile layer to prevent upward migration of soil.

The above information is for guidance only and the contractor or specifier should satisfy themselves that the construction of the base build up is suitable for the ground conditions and the traffic expected.

Alternative base: Concrete

Whilst concrete bases are not recommended for resin bound, the following should be considered if constructing a new one:

1. Concrete bay proportions should be ideally 1:1 and should not be greater than 3:2, long narrow strips of concrete will crack across the bay width and these cracks are likely to be mirrored in the surfacing
2. Ensure that the concrete has a minimum design strength of C35 and that the concrete has a minimum compressive strength of 15-20N/mm² before the surface is prepared. This is likely to be a few days after installation.
3. Prepare the concrete surface to remove laitance and provide a lightly textured surface to ensure adequate adhesion, vacuum shot blasting is the preferred method.

Instructions for use:

Preparation

1. The surface of the base, whether asphalt, concrete or any other sub-base must be clean, dry and free from loose materials.
2. Ensure that falls are in place to provide adequate drainage when applying to an impermeable base.
3. Protect all edges abutting soft landscaping with brick, concrete, aluminium trims or other such edge detail to prevent damage to the surfacing. Edgings should be securely fixed to prevent movement.
4. A flexible joint filler should be used at edgings where there is potential for movement to create separation.
5. Where AceBound UVR Dolce Vita Italian Marble Resin Bound Surfacing is to be applied to a non-permeable base, gaps or weep holes should be created in the edging, to allow drainage of water.
6. When applying AceBound UVR Dolce vita Italian Marble Resin Bound Surfacing to concrete bases, all movement joints, stress relief joints and day joints must be expressed in the resin bound surfacing.

Mixing

1. Place **AceBound UVR Resin Bound Surfacing Aggregate blend** (100kg) into a clean, dry, forced action mixer (minimum capacity/power 120 litres/1.8kW). Mix until the aggregate is evenly blended. Do not over mix the aggregate as this may cause grinding, creating dust and could result in a patchy surface. Approximately **30 seconds** will suffice.
2. Scrape all the contents of **AceBound UVR Resin Bound Surfacing B** component into the larger **A** component container and mix with a slow speed drill ($\leq 450\text{RPM}$) and MR2 paddle mixer attachment for **1- 2 minutes** until homogeneous.
3. Immediately add the mixed resin to the aggregate in the mixer. Mix the aggregate and resin together until all the aggregate is evenly coated. Mix for approximately **1- 2 minutes**. Over mixing will increase heat generation, reduce working time and may affect the colour. It is recommended to use a timer when mixing. Inconsistent mixing times may cause colour variation.
4. Pour in the 6.25kg sand and mix until evenly distributed and mix for a further **1- 2 minutes** until evenly distributed

Application

1. Discharge the mixed resin and aggregate onto the prepared surface, level and smooth using a steel trowel. Excessive compaction will reduce permeability.
2. Finish the surface with a suitable float avoiding overworking which may result in "trowel burn". **Acebound Tool Cleaner/Trowel Finishing Aid** should be used if required, the use of white spirit is not acceptable.
3. For improved slip-resistance on steep gradients, apply **Acebound Resin Bound Surfacing Anti-Slip Aggregate** to the wet resin at the rate of approximately $0.1\text{kg}/\text{m}^2$, avoid a patchy appearance by scattering evenly.
4. Always ensure that a wet edge is maintained, joints between mixes will be visible unless the older mix is still workable.

Contractors

AceBound UVR Dolce Vita Italian Marble Resin Bound Surfacing System is a specialist product and must only be applied by specialist applicators. Do not apply or allow it to be applied by contractors who do not possess the necessary skills and experience. You should consider appointing an Ace Resin Ltd approved contractor.

Application conditions & performance

AceBound UVR Dolce Vita Italian Marble Binder has been designed for typical weather conditions associated with the UK. Under these conditions the resin will be considered UV light and heat resistant and will not discolour.

Although **AceBound UVR Dolce Vita Italian Marble** has received additional processes during manufacture to minimize the risk of damage, application during or before rain is not recommended. Rain on the surface may affect the bond between the molecules during the cross-linking process, reducing the strength of the system. This may also cause blooming. Note that application to a damp substrate will reduce bond strength. Ensure un-mixed aggregate is always kept dry, wet aggregates will cause the same effect. Care must be taken to keep the mixing station dry, to avoid moisture/water becoming entrapped in the mix.

Working/Curing Time and Temperatures

Temperatures can affect both the curing time as well as working time. Increased temperatures will speed up these processes, lower temperatures will decrease both. **AceBound UVR Dolce Vita Italian Marble Resin** will cure sufficiently to receive foot traffic in 4 – 6 hours at 20°C, between 24 – 48 hours for vehicular traffic and 7 days for full chemical cure.

Curing

Allow to cure and open to traffic as described in "Working Times and Temperatures".

Cleaning Tools

Tools and equipment may be cleaned with AceBound Tool Cleaner/ Trowel Finishing Aid, which will remove uncured resin.

Shelf Life

Shelf life of AceBound UVR Dolce Vita Italian Marble Surfacing:

Resin: 6 months if product remains sealed

Italian Marble: Unlimited shelf life if kept dry and free from condensation

Health & Safety

Refer to Safety Data Sheet.

Mix design & coverage

AceBound UVR Dolce Vita Resin **7.5kg**

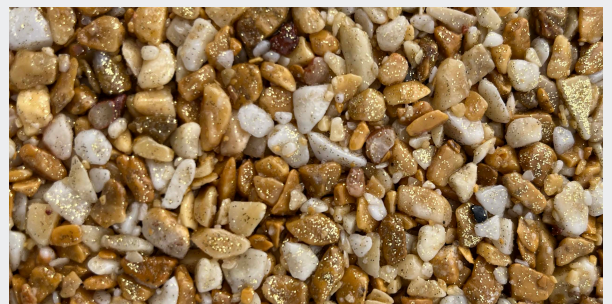
AceBound Marble **100kg**

AceBound binder sand **6.25kg**

Enhance your mix

PVA robust glitter flakes **100g**

Theoretical coverage 18mm = 3.5m² this does not take into account compaction, undulation of the sub-base or wastage.



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.

Please refer to Ace Resin Ltd latest mix blend sheets for all Acebound Blends.

The information detailed in this document is liable to modification from time to time. Customers are advised to check that they possess the latest version by contacting Ace Resin Ltd and quoting the version number. Any person or company using the product without first enquiring as to the suitability of the product for the intended use, does so at their own risk. Ace Resin Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.