

Natural aggregate resin bound surfacing system



FEATURES

- SuDS compliant—highly permeable paving
- UV stable resin will not discolour
- Natural aggregates
- Alternative to conventional paving
- Flexible
- Installed by approved contractors
- Low maintenance
 - Variety of colours see separate colour chart

Description	RonaDeck EcoAgg UV is a resin bound ag pedestrian traffic. RonaDeck EcoAgg UV surfaces seamless and slightly flexible. The open matrix a the base, eliminating water ponding and allowing or land drains. The system is designed to be SuDS of development on flood risk and allowing water water harvesting systems. Edgings created from should be installed to retain and protect the surface	s are decorative and functional, allows water to drain through to water to drain to planted areas S compliant reducing the impact r to flow into water courses or n brick, stone, timber or steel
	RonaDeck EcoAgg UV comprises RonaDeck component UV stable polyurethane resin which b EcoAgg UV provides an attractive surface, is stror highly porous. RonaDeck EcoAgg UV is typically aggregate to provide a thin alternative to asphalt o UV is designed for light foot traffic only. It is no drives or car parks.	inds the aggregate. RonaDeck ng enough for foot traffic, and is / applied to compacted Type 3 or concrete. RonaDeck EcoAgg
Mix Design	RonaDeck EcoAgg UV Resin RonaDeck EcoAgg UV Aggregate RonaDeck Fine Aggregate	1 x 7kg (combined A & B) 4 x 25kg 1 x 6.25kg
	Coverage @ 40mm	1.65m ² (approximately)
	Coverage is based on application to a smooth f applied to undulating surfaces, according to con grading, which can change from batch to batch.	
Resin and Aggregate	RonaDeck EcoAgg UV Resin has been design normal UK weather conditions the system is a resistant and will not discolour. If exposed to weat conditions, slight discolouration may occur.	considered UV light and heat

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Resin and Aggregate (continued)	The performance and appearance of the finished surface is dependent on the aggregate used. The RonaDeck EcoAgg Aggregates have been selected to achieve strength, resilience, porosity and decoration.
	Natural aggregates may contain small amounts of iron which can produce rust staining when exposed to air and water; standard RonaDeck EcoAgg UV blends contain aggregates selected for infrequency of incidence of staining but iron may be present in any natural aggregate. The presence of iron cannot be identified before use and Ronacrete Ltd cannot accept responsibility for any loss or damage suffered as a result of staining.
Appearance	The appearance of RonaDeck EcoAgg UV samples and materials are dependent on the colour, shade and grading of individual aggregates supplied to Ronacrete Ltd by its suppliers. Being largely natural aggregates, the appearance may be variable within batches and from batch to batch and uniformity of appearance should not be expected. RonaDeck EcoAgg UV is hand finished with a steel float and some variation in finished levels is to be expected. Levels variation may be accentuated in certain natural and artificial light conditions, such as at sunrise or sunset or when lighting is set into the surfacing.
Maintenance	It is possible to repair localised damage by cutting out and replacing, ideally using the same aggregate as originally supplied. Ageing and weathering of the original may prevent an invisible repair. "Picking out" of some stones is possible but is likely to be minimal and localised. Any major loss of stone should be reported.
Blooming	Blooming occurs, largely in late Autumn, Winter and early Spring, when conditions for application of resins are not ideal. Polyurethane resins may harden quickly but even at 20°C, initial cure does not occur until 24 hours have elapsed and initial cure takes longer at lower temperatures. Initial cure time is important because until it is achieved, the resin remains open to absorption of water. On dry days with air temperatures in excess of 10°C, conditions may seem benign but such conditions can produce blooming. Condensation occurs when the dew point is close to the air temperature and whenever the dew point rises to within 3 degrees of air temperature, condensation will occur. Application of resins during these adverse conditions, or for 2 days following application if conditions remain similar or worsen, runs the risk of blooming caused by dew forming on the resin surface or fog condensing on the surface.
Rain During Application	Application during rain or before rain is not recommended. Light rain on the surface affect the bond between particles, reducing the strength of the system. Unmixed aggregate must be kept dry at all times. Care must be taken to keep the mixing station dry, thus avoiding entrapment of moisture between aggregate and resin. Do not apply RonaDeck EcoAgg UV when rain is expected within 24 hours of application at 20°C. Do not apply RonaDeck EcoAgg UV when fog, frost or dew is expected within 48 hours of application.

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Suggested Construction SuDS Compliant Permeable Construction for Footpaths

RonaDeck EcoAgg UV System is designed for light foot traffic only, a suggested form of paving construction follows.

EcoAgg UV Surfacing

40mm minimum depth of RonaDeck EcoAgg UV natural aggregate bound with RonaDeck EcoAgg UV Resin.

Granular Sub-base

150mm minimum well compacted Type 3 granular sub-base or similar approved

Optional Impermeable Membrane

Impermeable membrane to carry water to infiltration/storage system or soakaway **Or Geotextile Layer** Geotextile layer to prevent upward migration of soil

Capping Layer

If required, depending on sub-grade condition **Sub-grade**

The above information is produced for guidance only, the designer/ contractor should be satisfied that the construction is suitable for the expected traffic and ground conditions.

Working Times and Temperatures

Winter Grade (5°C-15°C)

Ambient Temperature	5°C	10°C	15°C
Working Time	40-60 minutes	30-45 minutes	20-30 minutes
Lay before rain	3-4 hours	2-3 hours	1-2 hours
Pedestrian traffic after	12-14 hours	7-9 hours	5-7 hours

Summer Grade (15°C-25°C)

Ambient Temperature	15°C	20°C	25°C
Working Time	50-60 minutes	40-55 minutes	35-50 minutes
Lay before rain	6-8 hours	4-5 hours	3-4 hours
Pedestrian traffic after	24 hours	13-14 hours	9-12 hours

High Summer Grade (25°C-40°C)

Ambient Temperature	25°C	30°C	40°C
Working Time	55-90 minutes	45-75 minutes	30-45 minutes
Lay before rain	5-6 hours	4-5 hours	2-4 hours
Pedestrian traffic after	24 hours	14-16 hours	7-8 hours

Site conditions will affect the times quoted. All data is provided as a guide only.

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Working Times and Temperatures (continued) Working time is affected by temperature; at temperatures above the maximum recommended in the following tables, the pot life and working time may be insufficient to allow a wet edge to be maintained. Work should therefore not proceed when product and / or air temperature exceeds recommendations. The air temperature must therefore be monitored during application and work should stop when temperature exceeds recommendations. Care must be taken to keep materials as cool as possible in warm weather. At low temperatures RonaDeck Resin will not flow sufficiently to achieve a smooth finish and work should not proceed when air, material or substrate temperature is below 5°C.

Instructions for Use

Mixing

- 1. Ensure the forced action mixer is thoroughly cleaned immediately before works proceed as dirt/residue on the drum and mixing blade surfaces may contaminate the initial mixes. This contamination will affect the colour of the initial mixes, which will be noticeable when subsequent batches of material are laid.
- 2. Place RonaDeck EcoAgg Aggregate (100kg) into a clean, dry, forced action mixer minimum capacity/ power 120 litres/ 1.8kW, Baron F200 mixer or similar. The mixer is to be switched on prior to loading with aggregate.
- 3. Scrape all of the contents of RonaDeck EcoAgg UV Resin B component into the larger A component container and mix with a slow speed drill (≤450RPM) and MR2 paddle mixer attachment until homogeneous.
- 4. Immediately add the mixed resin to the aggregate in the mixer followed by RonaDeck Fine Aggregate (6.25kg) approximately 30 seconds later. Mix the aggregate and resin together until all the aggregate is evenly coated with resin. Mix for approximately 1-2 minutes. Overmixing will increase heat generation, reduce working time and may affect the colour. Inconsistent mixing times may cause colour variation, ensure all batches are mixed for the same length of time.

Application

- 1. Discharge the mixed resin and aggregate into a suitable wheelbarrow and immediately move to the point of application
- 2. Discharge the wheelbarrow onto the prepared surface and spread evenly using a straight bladed squeegee or spazzle to the required thickness and level.
- 3. The surface is then to be hand trowelled with a suitable float to leave a smooth compacted finish. Excessive compaction will reduce permeability and over trowelling may result in 'trowel burn'.
- 4. RonaDeck Low VOC Tool Cleaner/ Trowel Finishing Aid should be used if required, the use of white spirit is not advised.
- 5. For improved slip-resistance on steep gradients, apply 0.2-0.6mm clear glass grit to the wet resin at the rate of approximately 50-80g/ m², avoid a patchy appearance by scattering evenly.
- 6. Always ensure that a wet edge is maintained, joints between mixes will be visible unless the older mix is still workable.

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Instructions for Use (continued)	Curing Allow to cure and open to traffic as described in "Working Times and Temperatures".
	Cleaning Tools Tools and equipment may be cleaned with RonaDeck Low VOC Tool Cleaner/ Trowel Finishing Aid, which will remove uncured resin.
Shelf Life and Storage	Shelf life of RonaDeck EcoAgg UV resin is 6 months, aggregates have an unlimited shelf life when stored in clean, dry and well ventilated conditions between 5°C and 25°C. Protect from sunlight.
Health and Safety	Refer to Safety Data Sheet.
Site Attendance	When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore 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 and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, for for any loss or damage arising out of such use.



