

RonaDeck Drive Base

Epoxy resin and aggregate base for resin bound surfacing systems



FEATURES

- SuDS compliant base for resin bound surfacing
- Alternative to concrete and asphalt concrete
- Highly permeable
- Epoxy formulation
- Use with wet aggregates
- Install resin topping after 24 hours @ 20°C
- Designed for foot and light vehicle traffic
- Quick and easy to install
- Low VOC
- Not light stable and will yellow slightly when exposed to UV light (does not affect physical properties)

Description

RonaDeck Drive Base is an alternative to concrete and asphalt concrete in the build-up for driveways and pathways to be surfaced with resin bound surfacing. The epoxy formulation of RonaDeck Drive Base allows for wet aggregates to be used. RonaDeck Drive Base is ideally overlaid with a polyurethane based resin bound surfacing system after 24 hours (@ 20°C), for improved chemical bond and reduced contamination between layers .

The RonaDeck Drive Base system is designed for foot traffic and light vehicle traffic on domestic driveways. It is not designed for road surfacing or for car parks.

Mix Design & Coverage

RonaDeck Drive Base Mix Design

RonaDeck Drive Base Resin 6kg
Washed 6-10mm aggregate 100kg

Coverage @ 35mm 1.88m² (approx.)

Coverage is based on application to a smooth flat surface and will vary when applied to undulating surfaces, according to compaction, and to the aggregate grading, which can change from batch to batch.

Suggested Construction

Minimum Base Requirements	Pathway	Driveway
RonaDeck Resin Bound Surfacing	15mm	18mm
RonaDeck Drive Base	35mm	35mm
Type 3 sub-base	150mm	175mm

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. A capping layer may also be required depending on the sub-grade condition.

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.

RonaDeck Drive Base

Epoxy resin and aggregate base for resin bound surfacing systems

Instructions for Use

Application - RonaDeck Drive Base

1. Place 100kg of 6-10mm washed round gravel into a clean, forced action mixer, minimum pan capacity 120 litres, Baron F200 mixer or similar - only use clean, well graded aggregates which are suitable for this use.
2. Scrape all of the contents of RonaDeck Drive Base Part B component into the larger Part A container and mix with a drill and helical paddle mixer attachment for 2 minutes.
3. Immediately add the mixed resin to the aggregate in the mixer. Mix the aggregate and resin together for 3 minutes.
4. Discharge the mixed resin and aggregate into a suitable wheelbarrow and immediately move to the point of application
5. Discharge the wheelbarrow onto the prepared surface and spread evenly using a straight bladed squeegee or spazzle to the required thickness and level.
6. Allow the RonaDeck Drive Base to cure for 24 hours @ 20°C before applying RonaDeck Resin Bound Surfacing.

Application - RonaDeck Resin Bound Surfacing

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 Resin Bound Surfacing 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 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 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.**
5. Discharge the mixed resin and aggregate into a suitable wheelbarrow and immediately move to the point of application
6. Discharge the wheelbarrow onto the prepared surface and spread evenly using a straight bladed squeegee or spazzle to the required thickness and level.
7. 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'.
8. RonaDeck Low VOC Tool Cleaner/ Trowel Finishing Aid should be used if required, the use of white spirit is not advised.
9. For improved slip-resistance on steep gradients, apply 0.2-0.6mm clear glass grit to the wet resin at the rate of approximately $50\text{-}80\text{g/m}^2$, avoid a patchy appearance by scattering evenly.
10. Always ensure that a wet edge is maintained, joints between mixes will be visible unless the older mix is still workable.

For full application instruction of RonaDeck Resin Bound Surfacing, please see separate data sheet.

RonaDeck Drive Base

Epoxy resin and aggregate base for resin bound surfacing systems

Working Temperatures

Working time is affected by temperature including material, air and substrate temperature. At temperatures above 25°C the pot life and working time may be insufficient to allow its proper application. Work should not proceed when product or air temperature exceed 25°C. At low temperatures RonaDeck Drive Base will not flow sufficiently to achieve a smooth finish and work should not proceed when air, material or substrate temperature is below 10°C.

Rain During Application

Light rain on the surface of the system is unlikely to cause damage to or affect the surface. Heavy rain is likely to spoil the appearance of the surface. Very heavy rain could wash out the resin. Application during rain or when rain is anticipated during the cure period is not recommended. The surface of the RonaDeck Drive Base should be dry when RonaDeck Resin Bound Surfacing is applied, the bond strength will be reduced if the substrate is damp.

Shelf Life and Storage

Shelf life of RonaDeck Drive Base resin is 12 months, aggregates have an unlimited shelf life. Store materials in clean, dry, frost free warehouse conditions between 5°C and 25°C. Protect from sunlight.

Health and Safety

Refer to Safety Data Sheet.

Site Attendance

When on site Ronacrete Limited representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete Limited product. It is important to bear in mind that Ronacrete Limited 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 Limited.

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, or for any loss or damage arising out of such use.