

RonaDeck UV Rubber Granule Tree Pit

Resin bound rubber granule porous tree pit system



FEATURES

- SuDS compliant—highly permeable
- UV stable—non yellowing resin
- includes recycled rubber granules
- alternative to tree grilles
- installed by approved contractors
- design can accommodate some tree growth
- attractive; complements the surrounding area
- low maintenance
- range of coloured granules

Description

RonaDeck UV Rubber Granule Tree Pit is a resin bound rubber granule tree pit surfacing for trees in hard landscaped areas. RonaDeck UV Rubber Granule Tree Pit surrounds trees in a solid yet porous and flexible construction, allowing drainage of rainwater to roots and unlike grilles presenting no voids for litter, or hiding of syringes and needles.

The RonaDeck UV Rubber Granule Tree Pit comprises a two layer system of resin bound rubber granules. The thicker base layer is composed of black recycled 2-6mm granules bound in UV stable polyurethane resin and the topping layer of 1-4mm coloured granules is bound in the same resin. The design of this resin bound tree pit system provides a surface which is attractive, highly porous and able to receive light foot traffic.

Depth & Time to Traffic

Minimum depth 40mm
Traffic after 24 hours @ 20°C

Mix Design RonaDeck Rubber Granule Tree Pit Topping

RonaDeck UV Rubber Granule Tree Pit Topping resin 1 x 10kg
RonaDeck Rubber Granules (1-4mm) 2 x 25kg

Minimum thickness 15mm
Traffic after 24 hours @ 20°C

Coverage per batch @ 15mm 3.8m²
Coverage per batch @ 20mm 2.85m²

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Mix Design RonaDeck Rubber Granule Tree Pit Base

RonaDeck UV Rubber Granule Tree Pit Base resin	1 x 6kg
RonaDeck Rubber Granules (2-6mm)	2 x 25kg
Minimum thickness	25mm
Apply topping after	4-24 hours @ 20°C
Coverage per batch @ 25mm	3.8m ²
Coverage per batch @ 30mm	3.16m ²

UV Stable Resin

RonaDeck UV Rubber Granule Tree Pit resin is UV resistant and will not yellow on exposure to UV light. This is a more attractive option than other types of resin which can yellow, dramatically altering the appearance of the finished surface.

Working Temperatures

RonaDeck UV Rubber Granule Tree Pit resin is rapid setting and rapid curing. Its pot life and 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 therefore not proceed when product, air temperature exceed 25°C. At low temperatures the resin will not flow sufficiently to achieve a smooth finish and work should not proceed when air and material temperature is below 5°C. Whilst it is possible to mix and apply at temperatures down to 0°C, the cure rate and rate of strength gain will be retarded; the surface must not be trafficked until it has gained sufficient strength.

Rain During Application

Application during rain or when rain is anticipated during the cure period is not recommended. Light rain on the surface of the system is unlikely to affect the surface but may affect the bond between granules, reducing the strength of the system. Note that application to a damp substrate will reduce bond strength. Unmixed granules 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.

Traffic

RonaDeck Wet Pour Rubber Granule Surfacing is designed for light foot traffic. Vehicle traffic, heavy impact, high point and shear loading will damage the surface and may result in failure.

Rubber Granules

The performance and appearance of the finished surface is not only dependent on the resin but also on the rubber granules. The RonaDeck UV Rubber Granule Tree Pit blends have been designed to achieve strength, resilience, porosity and decoration. Blended granules can be supplied pre-bagged by Ronacrete Ltd or can be blended on site by the contractor following the guide mixes issued by Ronacrete.

Appearance

The appearance of samples and of materials supplied by Ronacrete are based on the colour, shade and grading of individual rubber granules supplied to Ronacrete by its suppliers. The appearance may vary from batch to batch.

Resin Bound and Bonded Surfacing

Continued on following page...

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Repairs

It is possible to repair localised damage by cutting out and replacing, ideally using the same blend as originally supplied. Ageing and weathering of the original may prevent an invisible repair. "Picking out" of some rubber granules is possible but is likely to be minimal and localised. Any major loss of rubber granules should be reported.

Contractors

RonaDeck UV Rubber Granule Tree Pit 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.

Instructions for Use

1. Only use rubber granules supplied by Ronacrete for this use.
2. Only mix in the dry and apply only in dry conditions to avoid entrapment of moisture. Even a small amount of moisture trapped between resin and granules will cause foaming of the resin.
3. Create a sound base, minimum 140mm deep, to accommodate 100mm of loose gravel base and 40mm of RonaDeck UV Rubber Granule Tree Pit.
4. The base should be sound, clean and dry. Soil to be well compacted and tree root to be protected.
5. Lay minimum 100mm depth of single size no fines loose dry gravel onto the base. Form a rising funnel of aggregate around the tree trunk such that the top of the loose aggregate is 15mm below the intended top of the RonaDeck UV Rubber Granule Tree Pit. The tree pit system will be laid on top of the loose aggregate.
6. Where required, form a solid perimeter using timber, kerbing, blocks or similar to create a permanent and secure edging for the loose gravel base and the RonaDeck UV Rubber Granule Tree Pit.
7. Place 2-6mm black RonaDeck Rubber Granules into a clean, dry, forced action mixer. It is important to mix all the resin with the required amount of aggregate (56kg), this will require a forced action mixer of at least 120 litre capacity Baron M200 or similar.
8. Scrape all the contents of the smaller resin container into the larger one and mix the two components of RonaDeck UV Rubber Granule Tree Pit Resin with a slow speed drill ($\leq 450\text{RPM}$) and MR2 paddle mixer attachment for 2 minutes. Overmixing will increase heat generation and reduce working time.
9. Immediately add the mixed resin to the granules in the mixer. Mix the granules and resin together until all the aggregate is evenly coated with resin. Mix for approximately 3-4 minutes and avoid overmixing.
10. Discharge the mixed resin and granules onto the prepared surface to a minimum thickness of 25mm, compact, level and smooth with a steel float. Avoid excessive compaction as this will reduce porosity.
11. Leave sufficient space around the trunk to allow for growth.
12. Place 1-4mm coloured RonaDeck Rubber Granules into a clean, dry, forced action mixer. It is important to mix all the resin with the required amount of aggregate (60kg), this will require a forced action mixer of at least 120 litre capacity, Baron M200 or similar.
13. Scrape all the contents of the smaller resin container into the larger one and mix the two components of RonaDeck UV Rubber Granule Tree Pit Resin 10kg, using a slow speed drill ($\leq 450\text{RPM}$) and MR2 paddle mixer attachment

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Instructions for Use (continued)

- for 2 minutes. Overmixing will increase heat generation and reduce working time.
14. Immediately add the mixed resin to the granules in the mixer. Mix the granules and resin together until all the aggregate is evenly coated with resin. Mix for approximately 3-4 minutes and avoid overmixing.
 15. Discharge the mixed resin and granules onto the prepared surface, compact and level.
 16. Finish the surface with a suitable float and ensure that the surface is completely flat. Avoid excessive use of the float as this may cause picking out of the granules; protruding rubber granules will tear and damage the system. RonaDeck Low VOC Tool Cleaner/ Trowel Finishing Aid should be used if required, the use of white spirit is not acceptable.
 17. Leave sufficient space around the trunk to allow for growth.
 18. To provide a more slip-resistant and matt appearance finish, immediately cast RonaDeck TP Fine Aggregate into the top surface of the wet resin and aggregate at approximately 0.1kg/m². Scatter evenly to avoid a patchy appearance.
 19. Allow to cure. Protect from heavy rain for 1 - 2 hours at 20°C and open to traffic as described in Physical Properties (page 1).

Shelf Life and Storage

Shelf life of RonaDeck UV Rubber Tree Pit resins is 6 months. Rubber granules have an unlimited shelf life. Store materials in clean, dry, frost free warehouse conditions away from sunlight between 5°C and 25°C.

Health and Safety

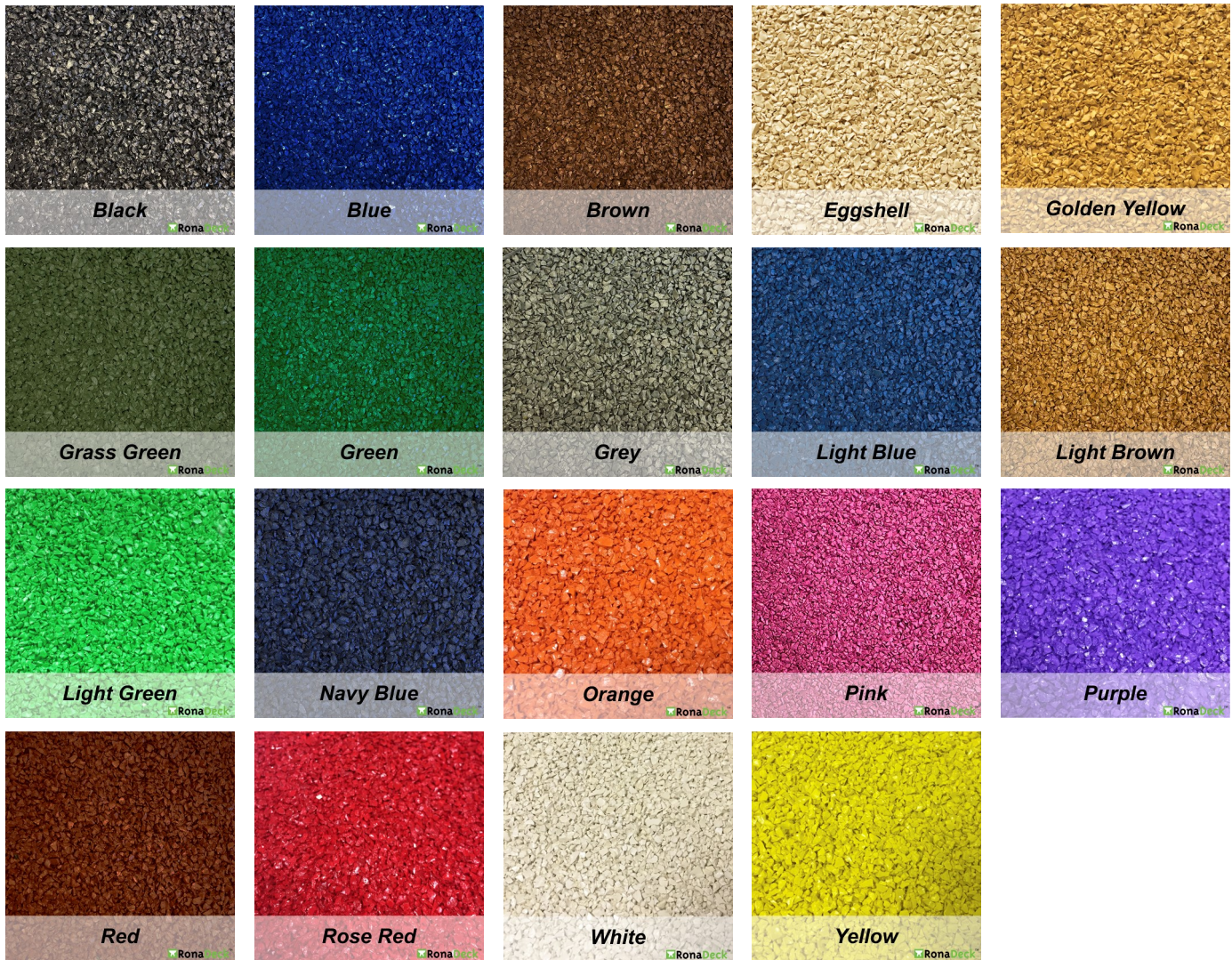
Refer to Safety Data Sheet.

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.

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Please note that all efforts have been made to get these swatches as close to the finished items as possible but due to limitation in the printing process accuracy is not guaranteed. We advise that cured samples are ordered before making a decision.

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.

Resin Bound and Bonded Surfacing

Ronacrete

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