

RenoCrete Datasheet

January 2022

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Cemcrete's **RenoCrete** is a pre-coloured spray-on or trowel-on cement-based polymer modified two part concrete resurfacing system. **RenoCrete** beautifies existing concrete surfaces while achieving good compressive, tensile and flexural strength with good abrasion resistance; to create a smooth (smooth trowelled), or textured (sprayed / knock-down), decorative surface.

Purpose

To be used internally and externally on floors and walls in domestic and light commercial environments. Transforms plain old and new 28 day cured concrete surfaces. Saves the cost of removal and reinstatement of plain concrete pavements. **RenoCrete** thickness is approximately 2 - 3 mm creating minimal impact on pavement design loading and existing pavement levels. Easily applied to large or small areas. Plain concrete can be placed early on in construction of commercial projects for safe and effective access. Then **RenoCrete** can be applied nearing completion.

Technical Data

Type	Modified cement-based coating
Colour	See website: www.cemcrete.co.za
Pot life	30 minutes
Working time after mixing	20 - 30 minutes
Initial set	2 to 3 hours depending on the weather
Light floor traffic after final application	The following day – weather dependant
Mixing water temperature	Best between 10°C and 25°C
Application temperature (ambient)	6°C to 25°C
Slab temperature	6°C to 25°C
Application thickness	2 to 3mm
Density	1 850g/ litre
Protection during application	Protection barriers required against wind and sun (no contact with product)

Applications

Suitable for redressing concrete floors, concrete pavements, concrete walkways, concrete driveways and concrete pool surrounds. **RenoCrete** can also be used on walls to provide a smooth decorative plaster onto wood floated plaster, polystyrene or Nutec board coated with Cemcrete's EIFS BaseCoat system.

Types

Supplied in dry powder only.

Finishes

1. Sprayed finish
2. Smooth trowelled finish
3. Knock-down finish

Specifying

RenoCrete is suitable as a decorative wear surface placed on existing plain concrete pavements used for pathways, roadways, driveways, internal & external flooring, pool surrounds and walls provided that the structural integrity of the underlying concrete is sound.

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Site Work

Storage

Store in the original sealed packaging in dry conditions. Shelf life of 6 to 12 months may be expected depending on humidity.

Surface Requirements

Floor Surface Preparation

All surface beds should have a damp proof membrane, must be clean, sound and free of dust, moisture, oils and grease or other surface contaminants such as paints, curing membranes, release agents etc. Concrete surfaces must be acid washed, water blasted, grit blasted or mechanically scabbled depending on surface conditions. If there is no damp proof membrane present under the concrete base then precautions need to be taken to prevent rising damp from below. Please consult with Cemcrete's technical department on this matter. The strength of the concrete or mortar substrate should be a minimum of 20MPa. The prepared substrate should be thoroughly dry before applying the **RenoCrete** system.

Warning: Do not apply over soft, chalky or dusty substrate.

Wall Surface Preparation

New wood floated plaster

The plaster should be cured for at least 28 days before **Renocrete** is applied.

New dry walls and fibre cement boards incorporating jointing

When plastering substrates such as dry walling and fibre cement boards (where this may be butt joined to substrates made up of different materials such as brick and mortar etc.) slip joints should be incorporated into the design. Refer to the Cemcrete Slip Joint information sheet. Apply a 3 to 4mm layer of EIFS BaseCoat and texture it, thus providing a good mechanical key. Leave to dry for at least 48 hours before applying **Renocrete** (see Application below).

Crack Repair

Many concrete surfaces will have some type of crack that must be repaired in order to successfully apply **RenoCrete**. Active cracks are more difficult to repair and may require cutting new expansion joints in the concrete.

Priming

Floors:

Apply one coat of Cemcrete's PrimerCote to the concrete surface using block brush or similar tool (physically rub the PrimerCote into the surface). See relevant datasheet for correct application techniques. Let the primer dry overnight. The following day apply a single coat of Concrete Primer to the PrimerCote the following day, and once tacky, apply the **RenoCrete**.

Walls:

Prime the plaster with a solution made up of 1 part CemBond and 5 parts water. Apply two coats of this solution and overcoat when first coat is dry. Apply **Renocrete** the next day.

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Mixing

RenoCrete requires mixing with water only. See below for respective mixing ratios. **RenoCrete** must be mixed mechanically using an electric mortar mixer.

1. Sprayed finish (walls and floors):

- Mix 3 parts **RenoCrete** to 1 part water.
- Apply two to three spray coats – depending on desired thickness.
- Various nozzle sizes will give various textures. 5mm = finer texture; 8mm = courser texture.
- If a smoother texture is required the final sprayed coat should be lightly steel trowelled while still wet so as to flatten any high points.

2. Smooth trowelled finish (walls and floors):

- Only one coat.
- Mix 4 parts **RenoCrete** with 1 part water. Apply with a trowel forcing the product onto the surface. Final thickness not to exceed 3mm. Use a gauge to check thickness. Allow **RenoCrete** to become firm, biscuit hard, then re-float with a wet sponge float to soften the surface. At this stage various textures can be achieved using various finishing tools, or just steel trowel smooth.

3. Knock down finish (floors):

To achieve the “knock down” texture effect:

A minimum of three coats will be required. Varying the colours for each coat will create a contrasting effect as well. A team member in spiked shoes will follow the sprayer (during third coat) and “knock down” the sprayed mortar with a 300mm rounded steel pool trowel. Different trowelling techniques will result in unique texture effects. Popular techniques include trowelling in one direction and half circles.

- First and second coats - Mix 3 parts **RenoCrete** to 1 part water – spray apply with a 5mm nozzle.
- Final coat - Mix 3 parts **RenoCrete** to 1 part water – spatter spray apply with a very low air pressure (5mm / 8mm nozzle) and then “knock down” lightly with a 300mm steel trowel.

Knock down finish (walls):

Use a tyrolene machine or a blockbrush to “flick” the **RenoCrete** onto the wall. Contractor will need to test apply first to get the desired texture.

Notes

- Adjusting the mix ratios, air pressure and spray nozzle sizes will create varying textures.
- Thicker mixes will result in course textures while thinner mixes will create finer textures.
- Let each coat dry thoroughly before applying the next coat. This is weather dependant.
- Once completely dry, use a mechanical blower or broom to clean off the area free of unbonded material and dust. Then use a coarse broom to remove any overspray or dust from joints in the pattern. Repeat with mechanical blower.
- One can use different **RenoCrete** colours to create variegated colours as well.

Coverage

A 20kg bag will cover approximately 3 - 5m² per bag depending on finish, surface profile, thickness and nozzle settings.

Packaging

Supplied in 20kg bags.

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Spray Application

A standard hopper gun needs to be modified to spray vertically downwards. A 300mm plumbing wash-trough combination elbow works well.



Before spraying, mask off any areas not to be coated for overspray up to a minimum of 1m in all directions. Pour mixed mortar into a hopper gun connected to a suitable air compressor. [Note: For larger texture, a lower setting of pressure is preferred. For a tighter texture, a higher setting of pressure is preferred. Practice with different pressure settings as well as different nozzle sizes on the hopper gun to achieve different effects]. Spray material in an even circular pattern ensuring complete coverage. Hold hopper gun no higher than 1m above the concrete surface.

Curing

In hot dry conditions cure completed work by mist spraying with water 3 times the following day.

In light commercial applications it is recommended to densify the **RenoCrete** after 7 days using Cemcrete's Potassium Densifier prior to sealing.

Sealing

The moisture in the substrate must be less than 5% prior to sealing. Ensure that the surface is free of any form of laitance or dust etcetera before sealing with a suitable sealer fit-for-purpose in accordance with the manufacturer's instructions. Sealers are best applied to a cool surface in multiple thin coats until an even sheen is achieved. Allow sufficient drying time between coats (product specific in accordance with the manufacturer's instructions). Cemcrete manufacture a wide range of sealers designed for a specific purpose, dry film thickness and durability (example: for use in wet areas etc). Various sealers also offer varying final finishes to the surface (e.g. gloss, matt, colour change, etc). Please contact your local representative for the best solution to meet your needs. Please refer to the **RenoCrete** step-by-step guide for recommended sealers, especially for external applications.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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