

RenoCrete Datasheet

November 2020

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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; while creating a textured slip-resistant 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; paving, driveways, walkways, outside patios, pool surrounds and balconies.

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 as well as pool surrounds provided that the structural integrity of the underlying concrete is sound.

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.

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Surface Requirements

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.

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

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 become touch dry before the application of **RenoCrete**. In other words the PrimerCote must be "green" and not be left to completely dry out.

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:

- 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 = coarser 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:

- 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:

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.

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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

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

Apply 2 - 3 coats of MultiPurpose Solvent-Based Sealer using a solvent resistant sprayer, roller or brush. Revert to the MultiPurpose Solvent-Based Sealer datasheet for further information. Seal only when moisture levels are below 5%.

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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