

Spray or trowel applied decorative concrete for application over existing concrete surfaces

Description

Covacrete NXTGEN Resurfacing System is a decorative concrete coating, suitable for application over existing cured concrete surfaces.

Covacrete NXTGEN Resurfacing System is made up of three (3) components, namely, Covacrete NXTGEN Base, Mastertone Powder Tint or Mastertone Aqueous Tints and clean potable water.

A wide range of colours are available. See colour chart for further details.

Uses

NXTGEN Resurfacing System is based on a blend of dry powders, polymers and graded aggregates. It is a suitable application for driveways, patios, pool surrounds, house and commercial decorative floors and certain road applications.

Advantages

- Extended working life for applications above 30°C.
- Improved flow properties for ease of spray application.
- Excellent durability.
- Excellent adhesion to most concrete substrates.
- Water based providing convenient water clean up.
- Anti-slip finishes obtainable.
- Wide range of colours and the ability to create a variety of finishes.

Properties

The following results were obtained at a water / powder ratio of 0.18 and a temperature of 23°C

Compressive Strength (AS1478.2-2005)	10 MPa @ 1 day
	30 MPa @ 7 days
	40 MPa @ 28 days
Modulus of Rupture (Flexural Strength) (AS1012.11-2000)	5 MPa @ 1 day
	7 MPa @ 7 days
	10 MPa @ 28 days
Indirect Tensile Strength (AS1012.10-2000)	1 MPa @ 1 day
	3 MPa @ 7 days
	5 MPa @ 28 days
Taber Abrasion Index (CS10 Wheel, 1kg load, 1000 cycles)	< 100
Slip Resistance Coefficient: (AS/NZS 4586-1999)	0.65 (texture dependent)

Application Instructions

Preparation

Preparation of the area is extremely important to ensure good adhesion.

Ensure concrete is sufficiently cured (recommended minimum 14 days).

If surface contains cracks, repair or filling should be undertaken, however, future movement in the concrete may cause cracks to appear that may affect adhesion and could result in chipping of the NXTGEN resurfaced coating.

- Concrete is to be clean and free of grease, oil, paint or any curing agent. Stiff broom and general purpose cleaner recommended.
- Pressure clean surface at minimum 2000 psi and allow to dry.
- Acid etch with hydrochloric acid. Dilute approx 20 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence.
NOTE: smooth concrete will require a higher acid content. Maximum strength - 10 parts water to 1 part acid.
- Pressure clean immediately to clean and remove all remnants of acid (do not allow acid to dry on surface). Pressure clean at minimum 2000 psi.

Masking and taping

- Ensure all surfaces surrounding the area to be sprayed, including grass and plants, should be covered or masked and taped.
- Expansion joints should be taped with filament tape, and removed after final spray.

Priming

- The area is then primed with Duratex Modifier. 1 part Duratex Modifier : 3 parts water by volume.
- Smooth trowelled floors require a mix ratio of 1 part Duratex Modifier : 4 parts water by volume.
- Apply evenly on surface by broom, roller or sprayer.
- Do not allow primer to pool. If primer pools, spread across surface. Allowing primer to dry in a pooling area can affect adhesion.

Mixing

- Mixing requires a clean, 20L bucket.
- Add required amount of clean potable water (3.6 - 4.0 L).
- Add Mastertone Powder Tint or Mastertone Aqueous Tint and mix thoroughly with mechanical mixer at low speed until mix colour is uniform.
- Slowly add NXTGEN base powder, mixing continually.

Covacrete® NXTGEN Resurfacing System

- Once full content has been added, mix for a further 3 minutes. This step is critical in activating the polymers to achieve an even consistent mixture.
- Ensure not to create an excessive vortex or aerate too much, creating air bubbles in the mix, as this can cause delamination and a weak surface.

Spray application

- Application will require a moisture trap air compressor (minimum 15 cfm) with a 20m hose and an appropriate hopper gun.
- Add mix to hopper, ensuring not to overfill - recommend half full.
- Before applying to surface, spray on separate fibro test board to obtain desired texture. Adjust pressure to vary texture.
- Spray evenly across surface in a circular motion, holding the hopper approximately 600mm from the ground.
- Once area has been completely covered, allow to dry sufficiently to walk on.
- Repeat application as above. Minimum 2 spray coats required to achieve sufficient wear factor.

Trowel application

- Pour a manageable quantity of NXTGEN mixture onto the primed concrete surface and squeegee or trowel evenly over the surface.
- Do not exceed a thickness of 4 mm per coat, as this may lead to shrinkage cracking.
- Subsequent trowel coats can be applied to achieve special decorative finishes.

Special decorative finishes - training course

Application of special decorative finishes, including:

- Design trowel down,
- Stone finish,
- Woodgrain
- Fauxstone,
- Multi-coloured spraying,
- Stencil and tape finishes,

Please contact your local Parchem store or visit our website for training course information.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

Sealing

- Refer to relevant Lustre Seal Sealer Technical Data Sheet.

Limitations

- Do not apply in temperatures below 10°C as curing time is significantly delayed. It is not advisable to apply onto very hot surfaces (greater than 40°C) as this can affect cure. Therefore, under very hot conditions it is advisable to shade the application area.
- Covacrete NXTGEN Resurfacing System is a decorative coating and cracks in the concrete base may reflect through the surface.

Supply

NXTGEN Base Compound: 20 kg bag

Product Code: NXTGENBC

Coverage

20 kg bag yields 12.5-13 litres and covers approximately 20-24 m² spray per coat.

Shelf Life

12 months if kept unopened and stored in cool, dry conditions. After this time, product should be checked to ensure it's suitability for use.

Storage Conditions

Store in cool, dry area in unopened bag.