

# Thermoplastic Coating Datasheet

November 2017

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A tough, thermoplastic, textured, weatherproof coating. Contains Mica and silica for maximum film protection against ultra-violet light and weather abrasion. Supplied ready for use.

## Technical Data

Type	Thermoplastic coating
Colour	See website <a href="http://www.cemcrete.co.za">www.cemcrete.co.za</a>
Initial set	Touch dry after 2 hours depending on weather
Recoating time	6 hours depending on weather
Final cure	± 3 days depending on weather and relative humidity
Cleaning of equipment	Clean with clean water immediately after use
Application temperature (ambient)	8°C to 30°C
Substrate temperature	8°C to 30°C
UV resistance	Stable. Passed SABS 10 year weather test
Abrasive resistance	Durable long lasting paint. Weather abrasion resistant
Density	1.280kg/litre
Dry film thickness per coat	± 40 microns
Protection during application	Sun and wind barriers
Safety	See MSDS

## Purpose

To provide a super durable colourful coating for walls. Being thermoplastic and specially formulated, this coating holds well over fine crazing and hairline cracks to prevent water entering the structure thus protecting concrete re-enforcing.

## Suitable surfaces

- Concrete and cement plaster
- Cement tiles
- Fibre cement board
- Protected wall partitioning
- Polystyrene used for instore displays
- Previously painted surfaces
- Direct to brickwork

## Benefits

- Gives lasting elasticity that enables the coating to expand and contract to prevent the reformation of hairline cracks on ageing. (NB hairline cracks do not exceed 0.2 mm)
- Is reinforced with thousands of marble chips and mica. These provide TPC with extra body to form a thick flexible coat that covers hairline cracks. (NB hairline cracks do not exceed 0.2 mm)
- Is non-flammable and has low VOC emissions
- Has good opacity (hiding power)
- Has passed the SABS 10 year weather resistance test

Cemcrete provides a comprehensive technical service based on over 4 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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## Limitations

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- Do not apply during cold (below 8°C) or wet weather
- For brush application, it is essential to apply the material by laying-on and finishing in one direction (upward)
- Not suitable for direct application to powdery or friable surfaces whether previously painted or not
- Not suitable for use in water-containing structures

## Types

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Available in textured or non- textured options.

## Applications

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Can be applied to exterior or interior walls of industrial, commercial or domestic buildings. It is especially suited to high-rise structures where frequent renovations are costly. Ideal for treating concrete structures to improve aesthetics and protect the re-enforcing. Ideal as a finishing coat for exterior raw or previously painted concrete, plaster or fibre cement surfaces.

- Particularly recommended for exterior plastered surfaces where hairline cracks are present.

## SABS

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An SABS 2000 hour artificial weathering test report is available on request.

## Specifying

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"Cemcrete **Thermoplastic Coating** applied in two coats with a minimum six hour interval to hard surfaces which are free from grease, organic growths or anything which might prevent adhesion. All in strict accordance with the manufacturer's instructions."

## Specimen finish

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A trial area should be treated on-site for the architect's approval.

## Site Work

## Storage

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Can be stored unopened for 12 months after date of invoice. Protect from freezing.

## Surface preparation

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Organic growths should be removed by brushing with a solution of 1 volume household bleach (sodium hyper-chlorite) solution and 3 volumes water. Allow 12 hours to kill spores then remove with a wire brush and water. Allow the surface to dry completely before applying **Thermoplastic Coating**.

Flaking, friable, chalking and soft surfaces must be scraped and wire-brushed to a firm foundation before priming with a solution of 1 volume CemBond and 4 volumes water. A small amount of **Thermoplastic Coating**, say one half part, can be incorporated in the priming coat for tinting purposes.

Cracks and voids to be filled with Cemcrete Crack Filler, sanded level and re-primed with the CemBond / water solution.

## Weather

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Do not apply to exterior surfaces if rain is expected or if there is a risk of frost.

## Masking

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For best results all windows, doors and adjacent surfaces should be masked using blue painters masking tape (available at Cemcrete) and brown paper. All masking material must be removed at the end of the day's work.

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## Application

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Ready for use with brush or roller. A lamb's wool roller gives an even textured finish. A plastic sponge roller can be used for finishing where a thicker, slightly stippled texture is desired. It is important not to overspread the product. Two coats should be applied allowing at least 6 hours between coats. Brushing may give an uneven finish. Thinning **TPC** will reduce opacity as well as crack bridging properties.

## Maintenance

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Surfaces treated with **Thermoplastic Coating** can be cleaned using scrubbing brushes, detergent and cold water.

## Coverage

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Approximately 6m<sup>2</sup>/litre/coat depending on surface porosity and profile.

## Packaging

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Supplied in 5 litre & 20 litre containers.

## Manufacturer's Warranty

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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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