

# TPC Roof Datasheet

November 2017

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A tough, thermoplastic, weatherproof coating. Contains Mica and silica for maximum film protection against ultra-violet light and weather abrasion. Supplied ready for use. Application by brush or roller. SABS 2000 hour artificial weathering test report available on request.

## Technical Data

Type	Thermoplastic coating
Colour	Popular roof shades. 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 / lt
Dry film thickness /coat	± 40 microns
Protection during application	Sun and wind barriers
Safety	See MSDS

## Purpose

To provide a super durable colourful coating for roofs. Being thermoplastic and specially formulated for application to new galvanised iron and concrete roofs, fibre cement and cement tiles. Although essentially a roof paint, it also has other applications such as side cladding, galvanised iron garage doors, gutters and downpipes, garden pots.

## SABS

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

## Benefits

- **TPC Roof** gives lasting elasticity that enables the coating to expand and contract with temperature changes to prevent the reformation of hairline cracks.
- **TPC Roof** is reinforced with thousands of marble chips and mica. These provide **TPC Roof** with extra body to form a thick flexible coat that covers hairline cracks. (NB hairline cracks that do not exceed 0.2 mm).
- **TPC Roof** is non- flammable and has low VOC emissions.
- **TPC Roof** has good opacity (hiding power).
- **TPC Roof** has passed the SABS 10 year weather resistance test.
- **TPC Roof** is colour fade and UV resistant.
- **TPC Roof** has super adhesion properties.

## Limitations

- 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 (same direction as corrugation in the case of corrugated iron).
- Not suitable for direct application to powdery or friable surfaces whether previously painted or not.

Cemcrete provides a comprehensive technical service based on over 3 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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## Specifying

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“Cemcrete **TPC Roof** 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.”

## Applications

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Application to new galvanised iron concrete roofs, fibre cement and cement tiles. Although essentially a roof paint, it also has other applications such as side cladding, galvanised iron garage doors, gutters and downpipes, garden pots.

## 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 in sealed, unopened containers, away from direct sun, heat or freezing temperatures for 12 months after date of invoice.

## Weather

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

## Surface preparation

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**TPC Roof** is suitably designed for application onto substrates that are integrally sound (no cracking, no crumbling or friability, good compressive strength and free of oils or contaminants that may impair bond. Cemcrete cannot be held liable should the **TPC Roof** application be compromised as a result of failure or de-bonding (adhesion failure) occurring within the substrate due to deficiencies or lack of surface preparation.

### New surfaces

#### Galvanised Iron (new, unweathered)

Heavy fabricator’s pre-treatment must be removed with a suitable commercial cleaner/degreaser for galvanized iron. A water-break free surface indicates thorough cleaning - running water should not form droplets. Once surface is clean, apply 1 good coat of Cemcrete’s Direct-to-Metal Paint (DTM) and allow to dry for 6 hours before applying the first coat of **TPC Roof**.

#### Galvanised Iron (unpainted, weathered)

Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal. To remove dirt, salts and zinc corrosion (white rust) clean thoroughly with a suitable commercial cleaner for galvanized iron. Areas where red rust has been removed must be spot primed with Cemcrete’s Direct-to-Metal Paint (DTM). Galvanised Iron in aggressive/coastal conditions, after thorough cleaning with a suitable commercial cleaner for galvanized iron should be coated with full coat of DTM before applying Cemcrete’s **TPC Roof**.

### New concrete

The plaster should be cured for at least 28 days and properly waterproofed before applying **TPC Roof**. Prime the concrete with a solution made up of 1 part CemBond and 3 parts water. Allowing this coat to dry properly and then apply the first coat of **TPC Roof**.

### Fibre cement and cement tiles

Prime the plaster with a solution made up of 1 part CemBond and 3 parts water allowing each coat to dry properly between coats and then apply first coat of **TPC Roof**.

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## Aged concrete, fibre cement and cement tiles

Remove dust and debris, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. Old, weathered concrete, fibre cement and cement tiles is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: HTH (chlorine) and water - 5% solution, or JIK (sodium hypochlorite) and water - 25% solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof and allow to dry. See Cemcrete's MatCrete datasheet (concrete roof) or RoofSeal datasheet (fibre cement and cement tiles) for the waterproofing application of these surfaces prior to painting with **TPC Roof**.

## Previously painted surfaces

Remove dust, debris and chalk from old paint, as well as loose flaking paint, wash the entire roof area by high-pressure water blast, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. The cleaning will reveal any areas where the adhesion of paint is still suspect. Remove down to sound substrate with scraper blades, and feather the edges. Special attention must be given to aged tiled and asbestos roofs to ensure that all loose, friable materials are removed by high-pressure water. Prime the surface with a solution made up of 1 part CemBond and 3 parts water allowing each coat to dry properly between coats and then apply first coat of **TPC Roof**.

## Masking

For best results all adjacent surfaces should be masked using masking tape and brown paper. All masking material must be removed at the end of the day's work.

## Mixing

This product is ready for use out of the container. Stir well before use. A little water may be added if necessary. (Never exceed 10%).

## Application

Apply one good coat using an oval paintbrush or sheepskin roller. Leave to dry for 6 hours. Apply a second coat. Wash brushes and rollers with clean water.

## Coverage

Approximately 3 to 6m<sup>2</sup>/litre/coat. For corrugated surfaces multiply your surface area by 1.5 to determine the quantity of paint required.

## Maintenance

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

## Packaging

Supplied in 5 litre and 20 litre non-returnable drums.

## 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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