

## Cemtop GP

**Floor underlay, self smoothing, levelling mortar for carpet / tiles (2-50 mm thickness)**

### USES

Cemtop GP is designed as a heavy duty underlay which forms a smooth, hard surface for a variety of floor finishes including carpet and ceramic tiles.

Cemtop GP may, depending on the end use of the floor, be used in conjunction with high build epoxy resin based systems such as Durafloor SL (refer separate Technical Data Sheet).

Cemtop GP can be used in residential, commercial and light industrial applications and is suitable for both new construction and refurbishment projects.

### ADVANTAGES

- Fast application by pump, enables large areas of floor to be completed in a working day
- Can be applied directly onto prepared concrete floors, eliminates traditional sand cement screeds
- Dimensionally stable, can be installed in large areas
- Excellent adhesion to prepared substrates
- Rapid hardening and curing allows speedy access for foot traffic and overlaying with carpet, vinyl etc.
- One pack product, applied by pump eliminates on-site batching and ensures consistency of mixed product

### DESCRIPTION

Cemtop GP consists of a blend of selected cements and aggregates modified with polymers and flow agents. It is used in conjunction with Durafloor Level Prime.

Cemtop GP is supplied as a grey powder which requires only the addition of water to produce a self smoothing, free flowing material.

The product is designed for installation by a continuous mixer pump, but can also be applied by hand.

### TECHNICAL SUPPORT

Parchem offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

### DESIGN CRITERIA

Cemtop GP is designed for application thicknesses of 2 mm - 50 mm. Thicker application is possible however your local Parchem sales office should be consulted for specific advice in this situation. Cemtop GP can be applied to clean, sound and well prepared concrete substrates which are free from loose material, oil, grease, paint etc. and has a minimum compressive strength of 20 MPa.

The relative humidity of the concrete substrate must not be greater than 80% at the time of installation.

New concrete should be at least 14 days old.

Consult Parchem for advice on the suitability of other substrates or where thickness exceeds 50 mm.

### PROPERTIES

The values given below are average figures based on 3.24 litres of water added per 18 kg bag of Cemtop GP. Actual values obtained on site may show minor variations from those quoted.

### PHYSICAL PROPERTIES

**Compressive strength (70 mm cubes cured @ 23°C 40% RH):**

15 MPa	1 day
20 MPa	3 days
23 MPa	7 days
25 MPa	28 days

**Time to foot traffic**

@ 23°C: 4 hours

**Time to overlaying**

@ 23°C: 24 hours\*

\* for thicknesses up to 10 mm

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<b>PARCHEM</b>	CONCRETE REPAIR	<b>FLOORING</b>	JOINTING SYSTEMS	WATERPROOFING
<b>TECHNICAL DATA SHEET</b>	<b>NOVEMBER 08</b>			
<a href="http://www.parchem.com.au">www.parchem.com.au</a>	7 Lucca Road, Wyong NSW 2259	Sales 1800 624 322	Technical 1800 812 864	ABN 80 069 961 968

## MAINTENANCE

If damage has occurred to Cemtop GP prior to the installation of the final floor finish, repair of that area can be achieved by removing any loose material, prime the repair area with Durafloor Level Prime, allow to dry and repair with Cemtop GP.

## APPLICATION INSTRUCTIONS

Although Cemtop GP has been designed for application by pump, the product can also be mixed and applied by hand.

## PREPARATION

The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint and grease.

New concrete should be at least 14 days old.

Excess laitance should be removed by light scabbling or captive shot blasting followed by vacuuming to remove dust debris. Oil and grease must be removed.

Large cracks and holes may be filled using a mix consisting of equal volumes of Cemtop GP and clean sharp sand made up to a trowellable mortar by the addition of a small amount of water. Prime the substrate with Durafloor Level Prime prior to repair.

## PRIMING

The object of priming is to seal the substrate to prevent air release from the subfloor rising and forming bubbles and pinholes on the surface of the Cemtop GP. Extremely porous substrates may require two priming/sealing coats. Primer coats must be allowed to dry before applying the Cemtop GP.

## INSTALLATION BY PUMP

This is a specialised activity and the product must be applied by a Parchem recommended contractor who has been fully trained in the use of the product and equipment.

Application procedure is as follows:

- Thoroughly prepare the floor surface.
- Prime the surface with Durafloor Level Prime, diluted 4 : 1 with water, (4 parts water to 1 part Durafloor Level Prime) and allow to dry.
- Reprime the surface with Durafloor Level Prime, diluted 4 : 1 with water, if necessary, and allow to dry.
- Apply Cemtop GP to the required thickness onto the dry, primed surface.

## INSTALLATION BY HAND

### MIXING

- Each 18 kg bag of Cemtop GP requires the addition of 3.24 - 3.60 litres of clean, cool water to produce a free flowing self smoothing consistency.
- Pour the mixing water into the clean mixing vessel. Add the powder slowly to the water, mixing continuously with a heavy duty drill fitted with a suitable paddle. Mixing should continue for at least 3 - 4 minutes until a smooth creamy consistency is obtained.
- Do not mix more Cemtop GP than can be reasonably laid within the flow time of the material. However, ensure that subsequent mixes are ready to enable continuous pouring until the area to be surfaced is complete.

Application procedure is as follows:

- Thoroughly prepare the floor surface.
- Prime the surface with Durafloor Level Prime, diluted 4 : 1 with water, (4 parts water to 1 part Durafloor Level Prime) and allow to dry (Nitobond\* AR diluted 2 : 1 with water may also be used).
- Reprime the surface with Durafloor Level Prime, diluted 4 : 1 with water, if necessary, and allow to dry.
- Pour the mixed material on to the dry primed surface, spread with trowel and allow to self-smooth. Roll surface with the purpose made spiked roller. Best results are achieved when the pouring and levelling is a continuous process.

Note: If the mix stiffens it should be discarded, do not attempt to re-mix with water.

### CLEANING

Cemtop GP and Durafloor Level Prime should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

## LIMITATIONS

Although Cemtop GP has a 28 day compressive strength of 25 MPa, it is designed as an internal underlay material only and NOT a wearing course for traffic.

Cemtop GP must not be used in areas subject to permanent wetting or where back water pressure is likely. Where regular wash down occurs, sealing with a coat of Nitoflor FC130 is recommended.

To prevent rapid drying protect from direct sunlight and/or drying winds during application and the final curing period.

If the surface onto which Cemtop GP is applied moves or cracks, reflective cracking may occur.

## ESTIMATING

### SUPPLY

<b>Cemtop GP:</b>	18 kg bag
<b>Durafloor Level Prime:</b>	1 litre, 5 litre and 20 litre containers

### COVERAGE

<b>Cemtop GP:</b>	Each 18 kg bag yields approx. 10.8 litres when mixed with 3.42 litres of water. 10.8 litres will cover 1 m <sup>2</sup> at 10.8 mm thick
<b>Durafloor Level Prime:</b>	10 - 20 m <sup>2</sup> /litre (after dilution with clean water as specified)

The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

## SPECIFICATION CLAUSE

Refer to Parchem website for detailed specification clauses. ([www.parchem.com.au](http://www.parchem.com.au))

## STORAGE

Cemtop GP should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 6 months.

Durafloor Level Prime has a shelf life of 18 months if stored at 20°C and protected from frost and extreme heat.

## ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

## IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS 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.

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