

## **Floor underlay, self smoothing, levelling mortar under vinyl / carpet / timber (0 - 50 mm thickness)**

### **Uses**

Durafloor Leveltop is designed as an internal high performance, easily installed underlay which forms a very smooth, hard surface for a variety of floor finishes including carpet, ceramic tiles, rubber, sheet vinyl and timber flooring.

Durafloor Leveltop may, depending on the end use of the floor, be used in conjunction with high-build resin based systems such as Durafloor SL.

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

### **Advantages**

- Very fast mixing and application, enables large areas of floor to be completed in a working day
- Self-smoothing
- Can be applied directly onto prepared concrete floors, up to 50 mm maximum thickness and eliminates traditional sand cement screeds
- Dimensionally stable, can be installed in large areas without cracking or curling
- Excellent adhesion to prepared substrates
- Walk traffic allowed 2 - 4 hours
- Rapid hardening and curing allows speedy access for foot traffic and overlaying with carpet, vinyl etc

### **Description**

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

Durafloor Leveltop 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 hand mixing or a continuous mixer pump.

### **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**

Durafloor Leveltop is designed for application from feather edge up to a maximum 50 mm thickness. Durafloor Leveltop 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.

## Properties

The values given below are average figures based on 3.75 litres of water added per 15 kg bag of Durafloor Leveltop. Actual values obtained on-site may show minor variations from those quoted.

### Physical properties

<b>Compressive strength (70 mm cubes cured @23°C Dry cure):</b>	
1 day	15 MPa
7 days	25 MPa
28 days	30 MPa
<b>Flexural strength Prism size - 25 x 25 x 285 mm cured at 23°C and 50% RH:</b>	
28 days	9 MPa
<b>Tensile strength cured at 23°C at 50% RH:</b>	
28 days	3.0 MPa
<b>Time to foot traffic:</b>	
@ 23°C:	4 - 8 hours
@ 15°C:	2 - 4 hours
<b>Time to overlaying at thickness up to 10 mm:</b>	
	24 hours at 23°C 48 hours at 15°C
<b>Work time (typical) @ 23°C</b>	
	20 minutes

## Maintenance

If damage has occurred to Durafloor Leveltop 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 Durafloor Leveltop.

## Application Instructions

### 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 Durafloor Leveltop 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 Durafloor Leveltop. Extremely porous substrates may require two priming/sealing coats.

Primer coats must be allowed to dry before applying the Durafloor Leveltop.

Thoroughly prepare the floor surface. Prime the surface with Durafloor Level Prime broken down with 4 parts water to 1 part Durafloor Level Prime (by volume) and allow to dry. Reprime the surface if necessary, and allow to dry.

For applications where water vapour, seepage or moisture are of concern, pre-treatment and priming with Emer-Proof Aqua Barrier is recommended. Contact Parchem for further advice.

### Application of Durafloor Leveltop over Emer-Proof Aqua Barrier

Apply the first two (2) coats of Emer-Proof Aqua Barrier as per the TDS and allow to cure. When using Emer-Proof Aqua Barrier under Durafloor Leveltop, it is essential that a third coat of Emer-Proof Aqua Barrier is applied to act as a bonding coat. The bonding coat of Emer-Proof Aqua Barrier is to be applied at 5m<sup>2</sup>/L and Durafloor Leveltop must be applied whilst the bonding coat is still tacky. If the bonding coat has been allowed to cure to a tack free state, a further coat must be applied prior to application of Durafloor Leveltop.

## Installation

### Mixing

Use 3.75 litres of cool, clean water per 15 kg bag of Durafloor Leveltop. Pour this water into a container, start mixing with a forced action mechanical mixer (or a purpose-made paddle in a heavy duty drill), slowly add all the powder while mixing, mix evenly through material for 2 minutes until a smoothing fluid is achieved. Do not mix more than can be laid within the flow time of the material, but ensure that the subsequent mixes are ready to allow the necessary continuous pouring for the entire surface.

### Application

Pour the mixed material onto the primed substrate trowel then allow to self-smooth. Use spiked rollers to give a final smooth finish. Do not attempt to float the setting surface, if high spots or splashes occur, these can be pared off with the edge of a trowel after the initial set. The required thickness must be achieved in a single application, by pouring and levelling in a continuous process until the designated area is completely levelled. If mix stiffens it must be discarded - do not attempt to remix with water.

Air and substrate temperatures must be above 5°C during application and cure, and rapid drying conditions must be avoided, especially direct sunlight or through drafts, until the material is hard (2 - 4 hours).

Installation by pump 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.

# Durafloor® Leveltop

NB: continuous mixer/feed pumps must have the water addition rate of no more than 3.75 litres per 15 kg bag of Durafloor Leveltop.

## Cleaning

Durafloor Leveltop 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 Durafloor Leveltop has a 28 day compressive strength of 30 MPa, it is designed as an underlay material and not a wearing course for traffic.

Durafloor Leveltop must not be used in areas where back water pressure is likely. Refer to Parchem for application where rising damp or hydro static water pressure is likely.

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

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

## Estimating

### Supply

<b>Durafloor Leveltop: PC 430092</b>	15 kg bag
<b>Durafloor Level Prime: PC 480005</b>	1 litre
<b>Durafloor Level Prime: PC 480016</b>	5 litre
<b>Durafloor Level Prime: PC 480017</b>	20 litre
<b>Emer-Proof Aqua Barrier: PC 405015</b>	20 litre kit

## Coverage

<b>Durafloor Leveltop:</b>	Each 15 kg bag yields approx. 9.3 litres when mixed with 3.75 litres of water
<b>Durafloor Level Prime:</b>	10 - 20 m <sup>2</sup> /litre (after dilution with clean water as specified)
<b>Emer-Proof Aqua Barrier:</b>	5 m <sup>2</sup> / litre per coat

## Specification Clause

Refer to Parchem website for detailed specification clauses.

## Storage

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

### 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.

