

## Floor underlay, self smoothing, levelling mortar for carpet / tiles / vinyl (0-50 mm thickness)

### Uses

Durafloor Leveltop Rapid is designed as a heavy duty floor repair compound which provides a very smooth surface allowing the smooth installation of carpet, ceramic tiles sheet rubber, sheet vinyl and vinyl tiles.

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

Durafloor Leveltop Rapid can be used in residential, commercial and any applications where a fast setting internal floor repair of high strength and compatibility with other floor coverings are required.

### Advantages

- Can be applied directly onto prepared concrete floors, eliminates traditional sand cement screeds
- Dimensionally stable, will not curl or crack
- Excellent adhesion to prepared substrates
- Rapid hardening and curing allows speedy access for foot traffic and overlaying with carpet, vinyl etc.
- One pack product eliminating on-site batching and ensures consistency of mixed product
- Produces a very smooth surface essential for laying thin sheet coverings such as vinyl etc.
- Can be 'feather edged'

### Description

Durafloor Leveltop Rapid consists of a blend of selected cements and aggregates modified with polymers and flow agents. It is used in conjunction with Durafloor Level Prime to rapidly repair / patch internal concrete substrates.

Durafloor Leveltop Rapid is supplied as a grey powder which requires only the addition of water to produce a smooth trowellable material.

### 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 Rapid is designed for application thicknesses of up to 50 mm. Thicker application is possible however your local Parchem sales branch should be consulted for specific advice in this situation. Durafloor Leveltop Rapid can be applied to clean, sound and well prepared concrete substrates which are free from loose material, oil, grease, paint etc. and have 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.

### Properties

The values given below are average figures based on 4.5 litres of water added per 20 kg bag of Durafloor Leveltop Rapid. Actual values obtained on site may show minor variations from those quoted.

#### Physical properties

##### Compressive strength (70 mm cubes cured @23°C Dry cure):

<b>2 hours</b>	5 MPa
<b>4 hours</b>	8 MPa
<b>6 hours</b>	10 MPa
<b>1 day</b>	15 MPa
<b>7 days</b>	20 MPa
<b>28 days</b>	25 MPa

<b>Initial set @ 23°C:</b>	15 minutes
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<b>Final set @ 23°C:</b>	60 minutes
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<b>Time to overlaying @ 23°C typical floor coverings such as carpet or vinyl:</b>	2 hours
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### Maintenance

If damage has occurred to Durafloor Leveltop Rapid 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 Rapid.

## 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.

### 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 Rapid. Extremely porous substrates may require two priming/sealing coats. If two primer coats are required, the second coat must be allowed to dry before applying the Durafloor Leveltop Rapid.

Prime the surface with Durafloor Level Prime Concentrate broken down with 4 parts water to 1 part Durafloor Level Prime (by volume) and allow to dry.

For application where water vapour, seepage or moisture are of concern, pre-treatment and treating with Emer-Proof Aqua Barrier\*\* is recommended.

\*\*Refer to separate data sheet.

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

Apply the first two (2) coats of Aqua Barrier as per the TDS and allow to cure. When using Emer-Proof Aqua Barrier under Durafloor Leveltop Rapid, 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 Rapid 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 Rapid.

### Mixing

Pour required amount of water into suitable mixing container. Slowly add Durafloor Leveltop Rapid whilst mixing with a suitable mixer such as a Festo Mortar Mixer. After all powder is added continue to mix for 2 - 3 minutes to ensure even consistency throughout.

During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment.

- Each 20 kg bag of Durafloor Leveltop Rapid requires the addition of 4.5 litres of clean, cool water to produce a trowellable consistency.

## Installation

Application procedure is as follows:

- Thoroughly prepare the floor surface.
- Reprime the surface if necessary, and allow to dry.
- Pour the mixed material on to the dry primed surface and spread with a trowel. Best results are achieved when the levelling is a continuous process by working the material into the primed surface firmly.
- Apply Durafloor Leveltop Rapid by trowelling firmly ensuring the mortar 'wets' the surface. Allow 10 minutes (approx.) before trimming the excess and smoothing off. As soon as the mortar has hardened, levelling (if applicable) can occur.

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

- As soon as the Durafloor Leveltop Rapid has hardened, the surface of the floor can be overlaid with any of the Parchem range of cementitious levelling compounds.

## Cleaning

Durafloor Leveltop Rapid 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

Durafloor Leveltop Rapid has a 28 day compressive strength of 25 MPa, it is designed as an underlay material and will provide the advertised properties only when water addition is not exceeded.

Durafloor Leveltop Rapid must not be used in areas where back water pressure is likely. Refer to Parchem for application where rising damp or hydrostatic 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 Rapid is applied moves or cracks, reflective cracking may occur.

# Durafloor® Leveltop Rapid

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## Estimating

### Supply

430105 - Durafloor Leveltop Rapid: 20 kg bag

480005 - Durafloor Level Prime: 1 litre

480016 - Durafloor Level Prime: 5 litre

480017 - Durafloor Level Prime: 20 litre

405015 - Emer-Proof Aqua Barrier: 20 litre pack

### Coverage

Durafloor Leveltop Rapid: Each 20 kg bag yields approx. 11 litres when mixed with 4.5 litres of water. 11 litres will cover 5.5 m<sup>2</sup> @ 2 mm thick.

Durafloor Level Prime: 10 - 20 m<sup>2</sup>/litre (after dilution with clean water as specified)

Emer-Proof Aqua Barrier: 5 m<sup>2</sup> / litre

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

## Specification Clause

Refer to Parchem website for detailed specification clauses.

## Storage

Durafloor Leveltop Rapid 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.

