

# Floor Levelling Compound Datasheet

November 2017

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A cement-based mixture having carefully controlled setting, hardening, adhesive and self-levelling qualities. It requires mixing with clean water only before being applied to concrete floors to produce a 2.5mm smooth, ridge-free layer that does not crack and is unaffected by rising damp. The floor covering can be laid when the **Floor Levelling Compound** is dry, minimum 24 hours.

## Technical Data

<b>Type</b>	Modified cement based floor compound
<b>Colour</b>	Grey
<b>Pot life</b>	15 minutes depending on weather
<b>Working time after mixing</b>	15 minutes depending on weather
<b>Initial set</b>	40 to 60 minutes depending on weather
<b>Light pedestrian traffic after application</b>	4 to 6 hours (no scuffing etc.) depending on relative humidity
<b>Compressive strength (28 days)</b>	35MPa
<b>Mixing water temperature</b>	15°C to 20°C
<b>Application temperature (ambient)</b>	8°C to 20°C
<b>Slab temperature</b>	8°C to 20°C
<b>Min application thickness</b>	2mm
<b>Max application thickness</b>	3mm
<b>Density</b>	1.5kg/litre
<b>Protection during application</b>	Wind and sun barriers (no direct contact with material)

**NOTE: All surface beds should have a damp proof membrane, and substrates must attain moisture levels less than 5% before the application of Cemcrete Floor Levelling Compound**

## Purpose

To provide a smooth surface to floor screeds to take thermoplastic tiles, cork, parquet, carpets and linoleum.

## Benefits

- Non-toxic
- Rapid setting
- Gains early strength
- Self-levelling properties

## Limitations

- Needs to be placed quickly as it goes thixotropic rapidly.
- Exposed to rapid drying it tends to craze. Apply within stipulated temperature ranges.

## Applications

Ideal for economically rendering standard floor screeds smooth enough to take plastic tiles and carpets to ensure even wear and long life.

## Specifying

“Apply approximately 2.5mm Cemcrete **Floor Levelling Compound** to all floor slabs before laying floor overlays.”

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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## Storage

Store in a dry cool shed away from direct sunlight on wooden slats for a maximum of 6 months after date of invoice. A cement-based mixture having carefully controlled setting, hardening, adhesive and self-levelling qualities. It requires mixing with clean water only before being applied to concrete floors to produce a 2.5mm smooth, ridge-free layer that does not crack and is unaffected by rising damp. The floor covering can be laid when the **Floor Levelling Compound** is dry, minimum 24 hours.

## Suitable Surfaces

**Floor Levelling Compound** is suitably designed for application onto concrete and screed substrates that are integrally sound (no cracking, no crumbling or friability, good compressive strength and good scuff resistance etc.) and of a quality and consistency suitable for application (smooth and level). Cemcrete cannot be held liable should the **Floor Levelling Compound** 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.

## Floor Tolerances

The success of an installation is highly dependent on substrate conditions and the quality of substrate preparation before applying **Floor Levelling Compound**. Since **Floor Levelling Compound** is normally applied at 2mm to 3mm, it is important that all highs and lows are addressed before application of Floor Levelling Compound (no more than 4mm off the datum line). In identifying the highs and lows a straight edge should be placed down and rotated through 360 degrees around the centre point (the larger the area the longer the straight edge should be). This exercise will highlight the valleys and ridges.

## Surface Preparation

### Existing surfaces

Floor should preferably be ground with a floor grinder to remove surface residues and to expose the true condition of the floor. Ensure that all cracks, holes and loose areas are properly repaired before application. PrimerCote mixed with some Concrete Floor Primer mixed to a stiff paste can be used for this purpose. It is suggested to first prime shallow holes with Concrete Floor Primer prior to patching. For larger holes use a suitable repair mortar. Application over moving joints or cracks can result in cracking and delaminating. All construction, cold joints, structural joints and/or structural cracks which may be dynamic before and/or after the **Floor Levelling Compound** application must be extended through to the surface of the **Floor Levelling Compound** application in the form of voided joints. All voided joints including saw cuts should be filled with suitable joint filler.

All applicable surfaces to be structurally sound and free from grease, oil, wax, carpet glue, bitumen, and dust or anything that might interfere with adhesion. Remove dust and loose material with a high pressure washer or with a vacuum cleaner and stiff brush. If previous bonding material is still prevalent, a concrete floor grinder or shot blaster using the finest grit available should be used. Scrub the surface using a suitable concrete degreaser and flush well with clean water. Allow to dry properly.

### New surfaces

The concrete or cement screed should be finished to a wood floated and level surface and allowed to cure for at least 28 days (wet curing for the first seven days), subject to the screed having a moisture content less than 5%, before applying **Floor Levelling Compound**. Ensure that the concrete or screed is integrally sound, dry, smooth, level and free of dust and laitance in any form.

## Mixing

To one volume water stir in 3.5 to 4 volumes **Floor Levelling Compound** depending on temperature. Use all mixed material within 15 minutes.

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## Application

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Pour onto the prepared floor sufficient **Floor Levelling Compound** and trowel to a thin layer. Then immediately spread a further layer to the desired thickness; which should not exceed 4mm.

If a thicker bed is desired, add one part fine river sand to the **Floor Levelling Compound** mixture. This could slightly reduce the levelling properties and the final texture.

The speed of hardening is dependent upon the ambient temperature. At 20°C a 2,5mm screed should be able to take pedestrian traffic within 4 to 6 hours depending on relative humidity. The floor covering can be laid when the **Floor Levelling Compound** is dry - a minimum of 4 hours depending on relative humidity. Protect from direct sunlight immediately after laying.

## Curing

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The screed will be ready to take the floor covering when it is hard and dry (between 4 to 12 hours). Protect from direct sunlight immediately after laying. If the floor covering is not to be laid immediately, cover the screed with plastic sheeting for 7 days. This has the effect of curing and protecting the screed. A daily damping with clean water under the plastic will improve the screed strength.

## Safety

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The use of protective clothing, goggles and dust masks is recommended even though **Floor Levelling Compound** is non-toxic.

- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 to 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

## Coverage

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At an average thickness of 2.5mm, 20kg mixture should cover 4m<sup>2</sup>.

## Packaging

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Supplied in 20kg non-returnable paper bags.

## 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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