

# level out

## Fast Setting External Levelling Compound

### DESCRIPTION

BAL LEVEL OUT is a fast-setting external levelling compound for concrete bases.

### Use for

- Backgrounds suitable for laying tiles on externally
- Laying onto concrete substrates that are uneven
- Bed depth from 2mm up to 20mm thickness
- Dry/wet environments including total immersion in pools
- Domestic or commercial use

^ Can receive ceramic or natural stone tiles after 3 hours at 20°C. A longer drying period will be required at thicker depths and/or lower site temperatures.

Note: Ensure direct to earth subfloors incorporate an effective damp proof membrane.

### Restrictions: NOT suitable for

- Use as a wearing screed
- For levelling sloped backgrounds where falls have been intentionally designed to divert water to a primary drainage point. Any substrate that has been laid to falls should always maintain a safe slope for maximum effective drainage.

### USAGE & SERVICE CONDITIONS

Floors	✓
Dry	✓
Wet	✓
Swimming Pools (1)	✓
Domestic	✓
Commercial	✓

(1) Pool tank must be watertight.

### BACKGROUNDS / BASES

Concrete	✓
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Area	Recommended Application Tool
Small /medium to large size floors.	Steel trowel
Very large areas ( Pumpable)	Long hand blade

### PRODUCT INFORMATION

**Composition:** Highly polymer modified cement

**Colour:** Grey

**Type/Classification:** Exceeds BS EN 13813 CT – C30 – F7 – Cementitious screed, Compressive Strength is >30N/mm<sup>2</sup> and Flexural Strength is >7N/mm<sup>2</sup> after 28 days

**Pack size:** 25kg

### Key features:

- Smoothing rough or impact damaged concrete
- Suitable for external applications
- Fast setting – walkable after 2-3 hours
- Apply from 2mm to 20mm thick in a single application

Note: the thickness of combined layers should not exceed 20mm.

**Lay tiles/pavers after:** 3 hours (at 20°C)

### USAGE: Bed Thickness / Time

Bed Thickness	Pot Life	Setting Time (at 20°C)
2mm – 20mm	>30 mins	3 hours

^ Tiles/Pavers can be laid after 3 hours at 20°C.

A longer drying period will be required at thicker depths and/or lower site temperatures.

### TOOLS/COVERAGE

Recommended Application Tool	Typical Coverage ^^ at 2 mm bed-thickness
Steel trowel	3.2 kg/2mm/m <sup>2</sup>
Long hand blade	

^^ May vary dependent on nature and flatness of surface, and thickness of application.

### TEMPERATURE RESISTANCE\*\*

-30°C to 100°C

\*\* Cured leveller.

## SURFACE PREPARATION

### General

Ensure concrete surfaces are dry, sound, and free from grease, dust and any other contamination/barriers to adhesion. Ensure direct-to-earth sub-floors incorporate an effective damp proof membrane.

### Concrete

Must be fully cured and free from efflorescence, laitance, dirt, polished concrete, and other loose materials. Remove using suitable mechanical methods. Some exposed aggregate should be visible in the surface but not loose.

Allow the following minimum drying times:

– Concrete: 6 weeks

Thoroughly dampen the substrate with water, taking care not to leave any pools of water, before applying the product to the dampened substrate.

Note: Any structural movement or live joints in the substrate must be carried through the **BAL LEVEL OUT** to the surface

### MIXING

This 25kg bag requires approx. 5.25 litres of water. Mix thoroughly until a lump-free mortar is obtained.

If gradient levelling had to be carried out, the water content must be reduced. To pump the mortar, use continuous pumps with a capacity of 20-40 litres of mortar per minute.

Do not use excess water as this will reduce the strength of the set and hardened mortar.

The use of a mixing paddle with a 10m chuck slow speed (600-1000 rpm) electric drill makes light work of mixing.

**BAL LEVEL OUT** should be applied within 30 minutes at 20°C. This time is extended at lower and reduced at higher temperatures.

NOTE: Working time/setting time will vary slightly with temperature: higher temperatures = shorter; lower temperatures = longer

Product Size	Usage	Approx. clean cold water
25kg	Floors	5.25 litres

### APPLICATION

Pour the mixed **BAL LEVEL OUT** onto the prepared substrate. The mixed mortar will flow out and self-smooth during the first 10 minutes of its 30-minute working time. Spread the mortar using a steel trowel or float.

For large areas, it's recommended to use a gauging tool with thickness height adjustment to spread the mortar. A long handled smoothing trowel can be used to simplify the finishing operation.

The applied **BAL LEVEL OUT** surface can be left with a trowelled finish.

Once set, the freshly applied **BAL LEVEL OUT** should be protected from adverse climatic conditions, e.g. rapid drying air flow, direct strong sunlight, rain, frost etc., until hardened. Apply at temperatures above 5°C.

If a second layer of **BAL LEVEL OUT** is required, this should be applied after the first layer has fully hardened. The first layer should be machine sanded (paper 16 to 36), cleaned and dampened down.

### HEALTH & SAFETY INFORMATION / GOOD PRACTICE ADVICE

For detailed information and safety guidance, please refer to Product Material Safety Data Sheet [MSDS].

### TECHNICAL ADVISORY SERVICE

For free expert guidance on use of this product, or any aspect of tiling, contact the BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE on Tel: 01782 591120 or 0845 600 1 222 or Fax: 01782 591121.

### POWERSPEC

A unique computerised online specification system for the design and installation of ceramic, mosaic and natural stone tiling. Visit [www.powerspeconline.com](http://www.powerspeconline.com)

### SHELF LIFE

12 months under normal dry conditions. Protect from frost and damp.

### QUALITY AND ENVIRONMENTAL STANDARDS

Manufacturing quality assurance standards conform to BS EN ISO 9001. Satisfies the environmental management requirements and operational scope of ISO 14001.

### CONDITIONS OF SALE

Sold subject to the Company's Conditions of Sale. *Available on request. For sales and technical queries, contact:*

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NOTE: BAL reserves the right to update instructions, technical data and other information at any time without notice.