



## TECHNICAL DATA SHEET Ver. 2.00 (Updated 01/08/18)

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## BRITLEVEL - FLEXIBLE LEVELLER -

An advanced single part, rapid setting levelling compound for application to uneven internal substrates prior to installing floor tiles, vinyl tiles\* and other soft floor finishes\*. All substrates must be clean and dry with a function DPM within the subfloor and not subject to rising damp. Do not use in areas subject to permanent water immersion i.e) swimming pools. BritLevel can be applied from depths of 2mm-18mm in one application and is suitable for use on all common substrates including underfloor heating systems, concrete, stone, ceramic, timber substrates and resilient flooring. Conforms to BS EN 13813 CT-C20-F4-B1-5 regulations.

\*Soft floor finishes should not be applied until the level has had, depending on site conditions, 24 hours to cure. The moisture content for the flooring to be used must be taken into consideration. Ensure any trowel marks are removed from the BritLevel before laying soft floor coverings. Matted underfloor heating elements should be embedded in a layer of BritLevel before any further work is carried out.

### - INTENDED USE:

BritLevel is suitable for laying on absorbant and non-absorbant internal substrates; to prepare most floor surfaces including timber floors prior to the installation of ceramic, porcelain, glass, mosaic, natural stone, vinyl tiles, altro flooring, linoleum, carpet, wood flooring, resilient flooring and certain floor paints. BritLevel Flexible is suitable for both matted and piped underfloor heating systems.

### - PREPARATION:

Ensure all surfaces are dry, free from grease, dust, loose matter and any other contaminates that will affect adhesion to the floor. All primed areas should be dry. Ensure a functioning damp proof membrane has been incorporated within the subfloor.

### - MIXING RATIO:

Add 20kg of BritLevel Flexible into a mixing vessel containing 3.5ltr of clean, cold water. Mix either by hand or with a mechanical mixer to achieve a smooth lump-free pourable liquid. Allow to stand for 2 minutes before re-mixing for 30 seconds. Pour the BritLevel Flexible mix onto the subfloor and assit flow using a steel trowel to achieve the required level.

### - CLEANING:

Remove surplus levelling compound with a damp cloth. Clean tools with water.



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### - TECHNICAL:

All work should be carried out in accordance to the following Codes of Practice:

- BS 8000: Workmanship on Construction Sites
- BS 5385: Wall and Floor Tiling
- APPLICATION TEMPERATURE: Between 5 °C and 30 °C.  
(Do NOT use in temperatures below 5 °C or in damp conditions.)
- POT LIFE: 40 minutes
- LIGHT TRAFFIC: 90 minutes\*
- FULL USE: 24 hours\*

\*NOTE - The above times refer to site conditions of 20 °C and a 3mm layer of BritLevel Reinforced. A longer drying period will be required at thicker depths. These times will be increased at lower temperatures and reduced at elevated temperatures.

### - APPLICATION:

#### Concrete Screeds/Sand Cement:

New concrete must be allowed a minimum of 6 weeks drying time with less than 0.5% moisture. Must be fully cured and free from efflorescence, laitance, dust, dirt and other loose material. Mechanically remove laitance from the surface of the concrete. Substrates should be primed two coats of BritPrimer pre-diluted 1:1 with clean, cold water. Apply the second coat 90° to the first coat, prior to applying BritLevel Flexible compound.

*Note: Cement floors with underfloor heating must be switched off 48hrs prior installation and remain off for 7 days. It can then be turned on gradually over a period of a further 7 days after the levelling of the floor is complete.*

#### Sheet Vinyl/Glazed & Unglazed Tiles/Quarry Tiles/Terrazzo & Natural Stone:

Ensure surface is stable and suitable to receive a further surface coating. Remove all polishes, wax, grease, old tile adhesive residues and loose matter. Any areas that are loose or hollow need to be removed. Apply a neat coat of BritPrimer to the surface prior to levelling the floor with BritLevel Flexible. This application method is also compatible with terrazzo and natural stone tiles.

#### Timber floors / Overlaid Timber Floors:

Ensure timber flooring is structurally sound and capable of supporting an additional static and dynamic load without excessive deflection and has adequate ventilation under the timber. Overlay boards must be water resistant grade plywood (*min. 15mm thick*), securely fixed to supporting joists at 300mm centres. Seal the underside of the timber and edges with un-diluted BritPrimer. Apply a further coat of un-diluted BritPrimer to the surface before the application of BritLevel Flexible.

#### Tongued & Grooved Floorboards: (*18mm Single Layer WBP Plywood*)

Ensure boards are dry, rigid and securely fixed to supporting joists at 300mm centres, including any cross-noggings. Sand (*abrade*) surface and ensure any surface coating are removed i.e) varnish, lacquers etc. Prime with two neat coats of BritPrimer, applying second coat at 90° to the first. Allow each coat to dry before levelling the floor with BritLevel Flexible.

#### Anhydrite/Calcium Sulphate & Hemi-Hydrate Screeds:

Allow the screed to dry out in accordance with manufacturer's instructions, moisture content below 0.5% w/w or 75% relative humidity for impermeable floors and less than 1% w/w for permeable floors. Surface laitance should be mechanically removed by scarification with a carbide disc. Vacuum the surface to remove all dust and loose material. Prime with two neat coats of BritPrimer, applying second coat at 90° to the first. Allow each coat to dry before levelling the floor with BritLevel Gypsum.



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### - APPLICATION:

Asphalt & Bitumen Floors:

*(Subject to oil/wax/solvent contamination)*

Must be of suitable grade, be clean, in sound condition *(without brittleness and softening etc)* and have adequate cohesive strength, a natural float finish and laid on a firm rigid base. Check for signs of debonding and/or hollowness. Clean thoroughly to remove surface dirt using warm water and a suitable detergent. Remove all detergent residues with clean water. Prime the surface using a slurry bonding coat consisting of portland cement mixed 2:1 with BritPrimer by weight. Allow to dry before levelling using BritLevel Flexible.

### - TILING:

Must not be carried out until BritLevel Flexible has set after 2-3 hours, depending on site conditions.

### - COVERAGE:

5kg/m<sup>2</sup> at approximately 3mm bed depth.

### - STORAGE:

Store unopened in original packaging in cool, dry conditions. BritLevel Flexible has a shelf life of 12 months from the date shown on the packaging. Protect from frost and damp.

### - MAINTENANCE:

BRIT ADHESIVES recommend the use of BRIGHT IDEAS range of tiling tools and floor maintenance products.

### - HEALTH & SAFETY:



**WARNING IRRITANT!**  
Contains Portland Cement

Keep away from animals and children.

Wet cement can cause irritation, dermatitis and/or burns.

Wear suitable protective clothing, gloves, eye/face protection.

BritLevel Flexible contains a reducing agent to control levels of Chromium VI. If stored correctly the activity of the reducing agent will be maintained and the product when mixed with water will produce no more than (0.0002%) 2ppm soluble Chromium VI of the total dry weight of the cement. Use of the product after the end of the declared shelf life may increase the risk of an allergic reaction.

NOTES: The information given is without prejudice and is believed to be accurate and complete.

Brit Adhesives goods are guaranteed against defective materials but we have no control over the site conditions, misuse of the product or the quality of the workmanship. Brit Adhesives accepts no liability for any direct or indirect consequential loss or damages arising or resulting from the use of this information. Timber subfloors should be installed according to manufacturers' instructions and site conditions should be taken into consideration.

#### ALWAYS WEAR PROTECTIVE WORKWEAR



WEAR DUST MASK



PROTECTIVE CLOTHING



WEAR SAFETY GOGGLES



WEAR SAFETY GLOVES

CE	
Brit Adhesives, Hainge Road, Tividale, West Midlands, B69 2NH	
13 00009	
EN 13813 CT-C20-F4-B1.5	
Cementitious polymer modified screed for internal use	
Reaction to fire:	F
Release of corrosive substances:	CT
Water permeability:	NPD
Compressive strength:	C20
Flexural strength:	F4
Wear resistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

(MSDS - Material Safety Data Sheet)