

# INTERIOR/EXTERIOR FLOORING SUBSTRATE - PRODUCT SPECIFICATION

## BGC Durafloor™

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### **BGC DURAFLOOR™**

BGC Durafloor™ is superb for interior wet areas such as bathrooms and laundries. BGC Durafloor™ can also be specified for a variety of exterior uses including balconies, verandas and sundecks. BGC Durafloor is available in 19mm thick for 450mm joist spacings and 22mm thick for 600mm joist spacings.

### **APPLICATION**

Interior wet area and Exterior flooring system

### **AUSTRALIAN STANDARDS**

Manufactured to conform to the requirements of AS2908.2 Cellulose-Cement Products and are classified as Type A Category 5 for external use.

Tested in accordance to AS1530.3

### **INSTALLATION**

#### **Interior Wet Areas**

BGC Durafloor™ is ideally suited as a substrate for ceramic tiled floors in the wet areas such as bathrooms and laundries.

BGC Durafloor™ satisfies the loading requirements of AS/NZS1170.1 Table 3.1 Category A Domestic and Residential Activities Concentrated Loads 1.8kn @ UDL of 4KPA.

In wet areas lay mortar bed (screed) at a minimum depth of 25mm over the BGC Durafloor™ to produce a minimum 1:60 fall to the waste drain.

Perimeter flashing or in-situ membrane bonded to BGC Durafloor™, using a two-part flexible epoxy resin eg. Megapoxy, Hydraband 501 or equivalent. The perimeter flashing may be a preformed PVC angle or a waterproof flashing strip such as Hypalon. It must extend 80mm minimum up the wall and 50mm across the floor. The corner detail must be waterproof. The flashing or membrane must not be bonded to the wall studs. BGC Durafloor™ must be laid across the floor joists. Lay waterproof membrane over BGC Durafloor™ at a minimum of 150mm up stand of the perimeter flashing. Lay a mortar bed (screed) over the BGC Durafloor™ to produce a 1:60 fall to the waste drain. Ensure all flashings and water proofings comply with the BCA and AS3740. Shower walls are to be water resistant to 1800mm from finished floor level.

#### **Interior Tiled Areas**

In areas where floor waste drains are not required for example kitchens, ceramic floor tiles may be fixed directly to the BGC Durafloor™.

Lay the sheets with long edges across the joists, with the ends of the sheet supported on the centre line of the joist. Joist spacing to suit the Durafloor™ thickness. Refer to size table. A bead of construction adhesive on the contact face of each joist will assist fixing and layout of sheets.

Take care with butt joints and associated creep over many sheet lengths. Additional joists may be required.

Sheet control joints are required at 3.6m intervals and at a change of direction. This control joint has to be carried through the tiled surface and where existing structural joints are located. Tiled areas subject to moisture and/or sun light require control joints at 2.4m to 3.6m in each direction.

### **Exterior Decking**

BGC Durafloor™ can be used as the substrate for a variety of exterior decking applications such as above ground pool surrounds, verandas and sun decks.

The basic requirements of two systems are covered in the BGC Durafloor™ brochure

#### **WATER RESISTANT WITHOUT MORTAR BED**

- / Square sheet layout (max deck width 3600mm)
- / Suitable for tiling (control joints required 2400 – 3600mm in either direction)
- / Applied liquid membrane

#### **WATER PROOF WITH MORTAR BED**

- / Staggered sheet layout
- / Suitable for large decks
- / Suitable for tiling
- / Minimum requirement over a habitable room or living space
- / Achieved via sheet and/or applied membranes plus slipper sheet and floating reinforced mortar bed

All decks shall have a fall minimum 1:100 to an outside edge. The use of sumps in decking is not recommended. A step down, of at least 50mm should be provided at any doorways onto the deck. If a mortar bed is used a minimum depth of 50mm is required.

Sheets are laid with the long edges across the joists. Max joist spacing 450mm centres for 19mm and 600mm centres for 22mm. In all cases a floor joist must support the sheet ends. The exception being the outer edge of decks where a drip angle is installed. The gap required for control joints needs to be taken into account when setting out the framing. Ensure compliance with NCC and all relevant standards.

BGC Durafloor™ satisfies the loading requirements of AS/NZS1170.1 Table 3.1 Category A Domestic and Residential Activities Concentrated Loads 1.8kn @ UDL of 4KPA.

For higher load applications, BGC Compressed Flooring is recommended. Please contact your local BGC Fibre Cement office for further details.

**Refer to the BGC Durafloor™ brochure for complete installation instructions –**  
**[www.bgcinnovadesign.com.au](http://www.bgcinnovadesign.com.au)**