



## TECHNICAL DATA SHEET

Ver. 2.00

(Updated 01/08/18)

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# BRITFLEX S1 - RAPIDSET -

SINGLE PART FAST SETTING ADHESIVE WITH REDUCED SLIP.  
SUITABLE FOR INTERIOR AND EXTERIOR USE. AVAILABLE IN WHITE AND GREY.  
CONFORMS TO BSEN12004 AND BSEN12002 – C2FTES1.

## - INTENDED USE:

BRITFLEX S1 RAPIDSET is suitable for fixing different tiles including ceramics, slate, limestone, marble, porcelain, terrazzo and mosaics to a variety of surfaces. Moisture sensitive backgrounds must be sealed correctly before tiling and it is recommended that a suitable wet room system is used. If used externally then a solid bed method of fixing is recommended. BRITFLEX S1 RAPIDSET is suitable for both matted and piped underfloor heating. If the matted type is to be used then the heating element should be embedded in a layer of adhesive and allowed to set prior to fixing tiles.

## - PREPARATION:

All surfaces must be free from loose matter, dry, clean from any dust or grease, fixed securely with screws to the supports and be dimensionally stable with no excessive movement. Wooden floors should be pre-strengthened with at least 15mm marine plywood mechanically fixed at 300mm centres.

## - MIXING RATIO:

Add 20kg of BRITFLEX S1 RAPIDSET into a mixing vessel containing 5ltr of clean cold water. BRITFLEX S1 RAPIDSET should be mixed either by hand or with a mechanical mixer with water to form a smooth, lump free thixotropic paste. Mix as desired and allow to stand for 2 minutes before using. Apply adhesive to the surface so that a continuous bed of adhesive between 3mm and 6mm is achieved. BRITFLEX S1 RAPIDSET can be used up to 12mm in uneven areas.

## - 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
- POT LIFE: 40 minutes
- BEFORE GROUTING: 2 hours\*
- FULL USE: 24 hours\*

\*NOTE - The above times refer to site conditions of 20°C. These times will be increased at lower temperatures and reduced at elevated temperatures.



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### - APPLICATION:

#### Plasterboard:

Ensure boards are securely fixed to the framework ideally screwed at 300mm centres and are rigid. The weight limit of plasterboard should be adhered to (32kg/m<sup>2</sup> maximum load). Prime with a 2:1 dilution of BRITPRIMER before tiling.

#### Gypsum Plaster:

Ensure surface is dry and dust free with less than 0.5% moisture. Allow new plaster to dry for a minimum of 4 weeks. Prime with 2 neat coats of BRITPRIMER (20kg/m<sup>2</sup> maximum load).

#### Brickwork, Blockwork and Render:

Ensure surface is fully cured and dry prior to tiling. Ensure the surface is free of contaminates. Prime the surface with a 1:1 dilution of BRITPRIMER and clean cold water before tiling.

#### Concrete Screeds:

Ensure surface is dry with less than 5% moisture. New concrete screeds must be allowed a minimum of 6 weeks drying time. Mechanically remove laitance from the surface of the concrete. Prime with a 2:1 dilution of BRITPRIMER before tiling.

#### Asphalt, Vinyl and Glazed Tiles:

Ensure surface is stable and suitable to receive a further surface coating. Remove all contaminates. Abrade the surface to provide a key. Prime the surface with BRITPRIMER diluted 1:1 with clean cold water mixed with approx 30% by weight of BRITFLEX S1 RAPIDSET to form a slurry bond coat. Apply to floor and allow to dry before tiling commences.

#### Timber - Tongue & Groove Floorboards:

Ensure timber is structurally sound and capable of supporting the weight of the tiles/adhesive. Surface must be free of any contaminates. Boards must be securely fixed to supporting joists prior to overboarding with at least 15mm marine plywood screw fixed at 300mm centres. Apply one coat of BRITPRIMER diluted 1:1 with clean cold water and allow to dry prior to tiling.

#### Anhydrite:

Ensure surface is dry with less than 0.5% moisture. Surface laitance should be removed by scarification with a carbide disc. The surface should then be vacuumed to ensure no debris is left on the floor. Prime the Anhydrite screed with 2 neat coats of BRITPRIMER and allow to dry before tiling commences. However, if the Anhydrite floor contains piped underfloor heating then the use of BRITFLEX S2 RAPIDSET is recommended.

### - CLEANING:

Remove surplus adhesive with a damp cloth. Clean tools with water.

### - GROUTING:

Grouting should be carried out using BRITFLEXI GROUT only after 3 hours and depending on site conditions.

### - COVERAGE:

3.5kg/m<sup>2</sup> at approximately 3mm bed depth.



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**- STORAGE:**

Store unopened in original packaging in cool, dry conditions. BRITFLEX S1 RAPIDSET has a shelf life of 12 months from the date shown on the packaging.

**- MAINTENANCE:**

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

**- HEALTH & SAFETY:**



**WARNING IRRITANT!**  
**Contains Portland Cement**

ALWAYS WEAR PROTECTIVE WORKWEAR



WEAR DUST MASK



PROTECTIVE CLOTHING



WEAR SAFETY GOGGLES



WEAR SAFETY GLOVES

Keep away from animals and children. Wet cement can cause irritation, dermatitis and/or burns. Wear suitable protective clothing, gloves, eye/face protection.

Grey BRITFLEX S1 RAPIDSET 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.

<b>CE</b>	
Brit Adhesives Ltd, Hainge Road, Tividale, West Midlands, B69 2NH.	
13 00002 EN 12004:2007+A1:2012	
Improved fast setting deformable cementitious adhesive with reduced slip and extended open time for internal and external wall and floor tiling EN 12004: C2FTES1	
Reaction to Fire:	F
Release of Dangerous Substance:	See MSDS
Bond Strength as: - early tensile adhesion strength - initial tensile adhesion strength	≥0.5N/mm <sup>2</sup> ≥1.0N/mm <sup>2</sup>
Durability for: - tensile adhesion strength after heat ageing - tensile adhesion strength after water immersion - tensile adhesion strength after freeze/thaw cycle	≥1.0N/mm <sup>2</sup> ≥1.0N/mm <sup>2</sup> ≥1.0N/mm <sup>2</sup>

(MSDS - Material Safety Data Sheet)



**WHITE**

Item Ref: FRSS1W20



**GREY**

Item Ref: FRSS1G20