

FLEXBOND LITE S2

Premium grade extra coverage
high performance polymer
modified tile adhesive

DESCRIPTION

Flexbond Lite S2 is a high performance, **HPC technology** non-slump cement-based flexible tile adhesive for Internal & External applications available in **White & Grey**. **Flexbond Lite S2** is specially designed for large format tiles and is Ideal for bonding a large range of wall & floor tile including ceramic, fully vitrified, porcelain, natural stone, terrazzo, glass and mosaics.

Flexbond Lite S2 accommodates for shrinkage movement associated with early age concrete and screeds and is ideal for the application over Bonded waterproof membranes **Barrierbond WPM** and **Barrierbond Fast (2P)** or suitable approved membranes contact **Bonded**[®] Technologies or your State/Country distributor.

Benefits & Uses

- High Yield and Performance
- Flexible S2
- Light weight 15kg bags
- Part of tiling to gain an Acoustic Performing system
- Non-Slump
- Extended Open Time
- Adhesive meets C2S2TE classifications
- Superior Coverage
- Scyon Board = Prime using **Prepbond NP Grip**
- Ideal product for Large Project applications e.g. Unit Blocks
- Low VOC content which easily meets Green Building Council of Australia Green Star IEQ-13 requirements.

Substrates

Concrete, renders, screeds, **Bonded**[®] waterproofing membrane, block work, gyprock, Plasterboard, Fibre cement sheet and Scyon Board.

Surface Preparation

Ensure surfaces are sound and free from movement, oil, grease, wax, dust and any curing and release agents and any other barrier materials. Ensure surface to be tiled over is strong enough to support the weight of the tiles being fixed. Surface needs to be dry before tiling, with no residue or permanent damp. All surfaces must be primed with either **Prepbond AP** (porous and semi-porous substrates) or **Prepbond NP Grip** (non-porous substrates).

Concrete & Cement Render

Ensure all concrete slabs are allowed to cure for at least 7 days in accordance with AS 3958.1-2007 and have a wood float finish. The maximum variation in the plane of the concrete must not exceed 5mm in 3 meters for floors and 4mm in 2 metres for walls. **Steel troweled finished concrete** surfaces must be mechanically abraded or primed first using **Prepbond NP Grip**. All **render surfaces** must be allowed to cure for at least 24 hrs. prior to commencing tiling.

Existing Tiles

Existing Tiles need to be sound and clean Remove all cracked, drummy or otherwise unsound tiles and repair appropriately. Prime surfaces using **Prepbond NP Grip**.

Plaster Board & Fibre Cement Sheet Wall /Floor

Fibre cement sheeting / Plasterboard Sheets must be the correct sheeting for the installation and be used and installed in accordance to the manufacturer's written specifications. The surface must be primed with **Prepbond AP**.

Mixing

Mix **Flexbond Lite S2** with 5-6 litres of water, add powder to water/liquid. Mix using a mixing paddle, allow to stand for 3min and then re-mix. Adhesive is now ready to use.

Fixing Tiles

Tiles should be fixed in accordance with Australian Standard AS 3958.1-2007 apply the adhesive using a square notched trowel.

For tiles < 300 x 300 mm use a 10mm Square notch and for tiles > 400 x 400 use a 12mm notch and butter the back of each tile. Apply adhesive at a rate of 1m², ensure adhesives still tacky, and press the tiles firmly into the adhesive before it skins. Do not spot fix, remove all excess adhesives.

Grouting

Commence grouting when tile adhesive has hardened sufficiently so that the tiles will not be dislodged. A proprietary grout such as **Bonded® Colour-In SG or FS** (Fast set) should be mixed and used as per grout written instructions for use.

Clean Up

Excess adhesive can be removed using a clean damp cloth while still wet, Tools and other equipment can be cleaned up using water while the adhesive is still wet.

Coverage

A 15kg bag of **Flexbond Lite S2** will cover approximately 12m² on walls using a 6mm notched trowel and 7m² on floors using a 10mm notched trowel. The coverage will vary depending on substrate condition, tile type and application technique.

Expansion Joints

Must be installed in accordance with Australian Standard AS3958.1-2007. Movement Joints must be placed from the substrate through the tile bed up to the face of the tile. Movement joints must be clean and free from dirt, adhesive droppings, and tile spacers. They must be a minimum of 6mm wide and no wider than 10mm. they should be filled with a suitable elastomeric sealant.

Position of Movement joints

Every 4.5 metres externally and every 6 metres internally. Around the perimeter of the floor; over existing joints in the substrate.

Where 2 different materials meet (e.g. wood and concrete).

Around fixtures in the substrate (e.g. columns).

Internal vertical corners; changes in direction of the tiling at changes in storey height.

Over existing movement joints.

Precautions

Do not apply **Flexbond Lite S2** in temperatures below 5°C and above 35°C.

Flexbond Lite S2 has an open time of 35 minutes at 23°C. and an adjustment time of 60 minutes. Please be aware of site conditions when considering times and only spread enough adhesive so that tiles can be fixed while the adhesive is still wet **Flexbond Lite S2** is not recommended for external tiling over 2.7m.

Do not use for tiling over existing tiles in immersed situations such as swimming pools spas etc. **Flexbond Lite S2** cannot be used when fixing moisture sensitive tiles or stone.

For applications or situations not mentioned in this data sheet please contact Bonded Technologies. **Flexbond Lite S2** is cement based and is alkaline in nature, and therefore may cause dermatitis. It is recommended that applicators wear PVC gloves or similar and safety goggles.

Technical Data

Rating	C2S2TE
Appearance	Available in Grey & White Powder
Mixing ratio	15kg bags mixes with 5-6 litres of Clean Water
Pot Life	3 hours at 23°C
Open Time	45 minutes at 23°C
Thickness of Mixed Product	Stiff Mixture will stand up on trowel
Application temperature range	5°C to 35°C
Drying Time	Ready to grout in 8 hours
Mechanical Properties (AS4992; ISO13007.1)	
Compressive Strength	25MPa
Tensile Strength	2.6 MPa
Tensile Strength after Heat Aging	2.5MPa
Tensile Strength after Water Immersion	1.2MPa
Sag Distance (mm)	0.00
Flexural deformation	5.9mm
Specific Gravity	1.10
Water Absorption	2.5g per litre
pH of Mixed Product	Over 11.5
Adjustability Time at 23°C	45 minutes
Ready to Grout at 23°C on walls	8 hours
Ready to Grout at 23°C on floors	24 hours
Time for Foot traffic at 23°C over porous substrate	24 hours
Environment Temperature Range After Cured	-40°C to 140°C

Packaging

Flexbond Lite S2 is available in a 15kg bag.

Shelf Life

A bag of **Flexbond Lite S2** when kept in a cool, dry environment, and stored above ground level, will have a shelf life of 12 months.

Warranty

All **Bonded®** products come with a 15-year warranty, providing the application is in accordance with AS3958.1 2007 and the manufacturer's printed directions for use on the latest Technical Data Sheet.

SDS is available from www.bondedtechnologies.com