



LFT

Large format Tile Adhesive

Date: 10 August 2018

Fact Sheet No.: D56054S

YOUR SMART ADVANTAGES

- Fixes porcelain & vitrified tiles
- Suitable for heated sub-floors
- For interior & exterior wall & floor use
- Recommended for Large Format Tiles

USES

EVO-STIK LFT adhesive is a Grey (or white) standard setting cement-based, thin-bed ceramic tile adhesive, which conforms to BS EN 12004 Type C, Class 2TE-S1. It is for fixing all types of ceramic floor and wall tiles including large format porcelain, vitrified & natural stone tiles onto many typically encountered surfaces including plywood and impermeable substrates.

EVO-STIK LFT adhesive forms a strong bond with concrete, cement-render, concrete block-work, tile backer-boards and brickwork. This adhesive is polymer modified to give improved flexural strength, and is suitable where under-floor heating is installed.

EVO-STIK LFT adhesive can also be used to fix tiles directly to fully braced and secured plywood timber panels and is sufficiently water-resistant to be suitable for interior / exterior use, in swimming pools and locations which are subject to persistent dampness, e.g. showers, saunas, wet rooms and bathrooms.

PRODUCT CHARACTERISTICS

Colour	White
Form	Powder
Specific Gravity	1.1 dry, 1.8 when mixed as directed
Composition	Portland cement blend
Product Code	30810412
Storage/Shelf Life	Store for up to 12 months from date of manufacture in original, unopened packaging under cool, dry, conditions within the

temperature range of +5°C to +30°C and out of direct sunlight. Protect from frost.

TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+5°C to +30°C
Service Temperature	-15°C to +70°C
Coverage	Will cover at a rate of about 4.0kg per sq. mtr for floor tile fixing and at about 2.5 kg per sq. mtr. When fixing wall tiles
Drying Times	Open time is 4 hours & initial set is 24 hours
Solvent for Cleaning Up	Water

DIRECTIONS FOR USE

IMPORTANT: Before using EVO-STIK LFT adhesive refer to the relevant Health & Safety Data Sheet, available at www.bostik.co.uk.

PREPARATION

1. The receiving substrates must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. They must also be structurally sound and strong enough to support the weight of the tiles being fixed.
2. EVO-STIK LFT adhesive can be applied to dry or damp surfaces however moisture sensitive materials must be dry and remain dry after fixing. Worn or porous masonry surfaces should be sealed with BOSTIK FLEXIBOND diluted as 1 to 3 with water.
3. Wood -based surfaces, such as 15mm WBP waterproof rated plywood and panel-boards should be dry, sealed on all exposed faces and edges and primed using BOSTIK FLEXIBOND.
4. Plyboards must always be rigidly braced and screw fixed at 300mm centres to provide a dimensionally stable background as described in BS 5385 and be allowed to fully acclimatise to room conditions for a few days before tiling proceeds.
5. Do not apply onto bare, un-sealed gypsum plaster or anhydrite floor screeds before first sealing this type surface with two coats of BOSTIK PRIMER.
6. In wet areas such as showers & wet-rooms plywood and other backer boards should be protected with the BOSTIK TANKING KIT to prevent water ingress through to the substrate.

- When fixing light stone or translucent marble tiles use EVO-STIK LFT WHITE apply a bed of adhesive to the substrate and back butter tiles to ensure a solid bed.

APPLICATION

- EVO-STIK LFT adhesive should be added to water in a clean container whilst mechanically stirring to give a, slump-free, easily worked mortar. The recommended mixing proportions by volume are 1 part water to 3 parts powder (approx. 5 litres per 20kg sack). The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing stage however part-used adhesive should never be "freshened up" with later water additions.
- EVO-STIK LFT adhesive will remain useable for about 4 hours and should not be applied in temperatures below 5°C. In ideal conditions (20°C), this thin-bed adhesive will set after about 12 to 16 hours. Expansion joints should be planned and installed in large floor areas in accordance with BS 5385.
- For fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate of no more than 6mm, into which the tiles are firmly bedded with a twist and slide action to ensure full contact.
- When fixing Large Format Tiles it is important to ensure full adhesive contact with solid bed fixing, spreading the adhesive generously with a straight edges on the surface and then ribbing with a flooring grade large or rounded notched trowel, making sure no voids are left beneath the tiles by back buttering them with a thin layer before fixing into place.
- In isolated areas where the floor is not true and even EVO-STIK TECHNIK LFT may be applied as a floated coat up to 8mm thick and tiles with deep lugs or keys on the back should again be back-buttered before fixing on the adhesive bed.
- Use a 6mm x 6mm notch at 10mm centres for general wall tiling and 10mm x 10mm notch at 16mm centres for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing.
- Open time of the exposed mortar bed is approximately 20 minutes, depending on surface porosity and site conditions. It is recommended that tiles with raised or studded back profiles, (or in situations where dampness is likely after tiling), should be buttered to ensure solid bed fixing.
- Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period. Surfaces that are rough or uneven may first be levelled with a SELF-LEVELLING COMPOUND and when sufficiently firm (24 – 48 hours later), is followed by an application of EVO-STIK LFT adhesive with a final bed depth of 2 to 3mm thickness.
- Maximum recommended bed depth is 6mm. When fixing moisture sensitive light coloured natural stone, a white fast setting adhesive can be used to promote early drying & strength development

SURFACE CONSIDERATIONS

FLOORS

New concrete

Before covering and after curing, concrete should be left to dry out by exposure to air for at least 6 weeks. Any falls required in the system should be formed in the new concrete and not the tiling layer.

New sand/cement screeds

Before covering and after curing, screeds should be left to dry out by exposure to air for at least 3 weeks. It is recommended that screeds should have a relative humidity level of 75% as tested by an air hygrometer. **Existing concrete/screed bases**

Existing cementitious substrates should be sound and dry. Any unsound areas should be removed, replaced and treated as a new screed or concrete.

PLYWOOD OVERLAY

Plywood should be of WPB external or marine grade. The minimum recommendation thickness is 15 - 18 mm. Plywood sheets must be dry, securely fixed and rigid. They should be screwed to the supporting joists at maximum 300 mm centers. It is imperative that the joints between boards are supported by either a joist or a noggin. Extra noggins may need to be inserted for this reason. The back and edges should be sealed with diluted Bostik Flexibond pre-diluted 1:2 with water to prevent the ingress of ambient moisture. Check suitability of sheets for the intended application with the manufacturer. This type of substrate is sensitive to water; care should be made to prevent water ingress. In this situation we would recommend tanking out the installation with Bostik Water-tite Tanking & Wet-room Kit. The method of fixing must be solid bed using the appropriate notched trowel. No voids should exist between the tile and substrate, minimum bed thickness 3 mm.

EXISTING FLOOR TILES

All loose tiles should be removed and hollows filled before tiling. Existing tiles should be thoroughly cleaned and degreased before tiling to remove all contaminants. Consideration should be given to mechanically abrading the tile surface, particularly with quarry tiles, to ensure a good bond can be formed.

VINYL TILE SHEET

Vinyl tiles should only be tiled if they are rigid and firmly fixed to their base. Any loose areas should be removed and the whole area thoroughly degreased before fixing. The surface must be sufficiently regular to receive an even bed thickness of adhesive. Prime with Bostik Flexibond pre-diluted 1:2 with water. Cushioned, soft types of flooring are not suitable and must be completely removed prior to tiling.

MASTIC ASPHALT

Asphalt must be rigid and solidly fixed. Only internal, flooring grade asphalt should be tiled. Never tile onto external roofing grade asphalt as this will be



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BS EN ISO 9001:2008

too soft to acceptably receive tiles. Prime with Bostik Flexibond pre-diluted 1:2 with water.

CLEANING

1. Uncured product may be removed using cloths lightly dampened with water after carefully scraping off the bulk
2. Cured product can only be removed by mechanical means.

STORAGE

Store in un-opened bags clear of ground and in cool dry conditions. Protect from excessive draught and use within 6 months.

CLEANING

3. Uncured product may be removed using cloths lightly dampened with water after carefully scraping off the bulk of the adhesive paste.
4. Cured product can only be removed by mechanical means.

PRECAUTIONS IN USE

For any application not covered please contact Technical Services on +353 1 8624998 or visit www.bostik.ie for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for, available at www.bostik.ie.



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DECLARATION OF PERFORMANCE

In accordance with Annex III of Regulation (EU) No 305/2011
(Construction Products Regulation)

Product Description:	EVO-STIK TECHNIK LFT WHITE
Product Barcode(s):	30810412
Intended Use:	Improved cementitious adhesive for internal and external tiling on floors and walls.
Manufacturer:	Bostik Ireland Limited
Contact Address:	Newtown Road, Swords, Co. Dublin, Ireland, Tel: 00 353 1 8624900 www.bostik.ie
System of Assessment:	System 3
Harmonised Standard:	BS EN 12004:2014 / 1 & 2
Notified Body:	1289

Essential Characteristics	Performance	Harmonised technical specification
Bond strength as: Initial Tensile adhesion strength	>1.0 N/mm ²	EN 12004-2, 8.3
Extended open time tensile adhesion strength: Tensile strength after 30 minutes open time	>0.5 N/mm ²	EN 12004-2, 8.1
Durability for: - Tensile adhesion strength after heat ageing - Tensile adhesion strength after freeze thaw cycles - Tensile adhesion strength after water immersion	>1.0 N/mm ² >1.0 N/mm ² >1.0 N/mm ²	EN 12004-2, 8.3 EN 12004-2, 8.3 EN 12004-2, 8.3
Reduced Slip	<0.5 mm	EN 12004-2, 8.2
Deformable adhesive	>2.5 mm	EN 12004-2, 8.6
Reaction to Fire	NPD	
Release of dangerous substances	See MSDS	

This declaration of performance is issued under the sole responsibility of Bostik Ireland Ltd.

Signed for and on behalf of Bostik Ireland Ltd by:-

Name : Brian Monaghan

Signature:

Date: May 2016