

# EVOFLEX

## NON-LIPPING TILE ADHESIVE FOR LARGE FORMAT TILES

26 November 2018

### YOUR SMART ADVANTAGES

- Superb non-lipping
- Smooth trowel feel
- Strong grab
- Excellent bond
- Long adjustment time
- Early grouting (6-8 hours)
- All-rounder; no additive required
- Single component, 2 pack performance

### DESCRIPTION

Superior high polymer modified tile adhesive. With in-built **"Evo-Lastic Technology"** making it perfect for laying heavy large format tiles. Off-white in colour.

### CLASSIFICATION STANDARDS

#### AS ISO 13007 CLASSIFICATION

|    |                                |
|----|--------------------------------|
| C2 | Improved cementitious adhesive |
| S2 | Highly deformable (flexible)   |
| E  | Extended open time (>30 mins)  |
| T  | Non-slip                       |

### USES

Perfect for heavy large format tiles  
High traffic  
Where superior bond is needed  
When one adhesive is needed for most jobs

### SUITABLE SUBSTRATES

Concrete  
Render and early age (green) screeds  
Fibre cement, plasterboard  
Heated concrete slabs  
Bostik compatible waterproofing membrane

### SUITABLE TILES

All moisture stable tile types including porcelain, ceramic, terracotta, terrazzo and stone.

### PRODUCT CHARACTERISTICS

#### PHYSICAL PROPERTIES

|                        |                      |
|------------------------|----------------------|
| Appearance             | Off White Powder     |
| Mixed S.G              | 1.40                 |
| SCAQMD -   VOC %       | < 1                  |
| US RULE 1168   VOC g/L | < 1                  |
| Mixing Ratio           | 20kg into 5.5 - 6 L  |
| Pot Life               | 3hrs 22°C and 50% RH |
| Set Time               | 6hrs 22°C and 50% RH |
| Open Time              | > 30 mins            |

#### MECHANICAL PROPERTIES

|                        |           |
|------------------------|-----------|
| Tensile strength       | > 1.0 MPa |
| After immersion        | > 1.0 MPa |
| Heat ageing            | > 1.0 MPa |
| Freeze/thaw            | > 1.0 MPa |
| Transverse deformation | > 5mm     |
| Product code<br>20kg   | 30840446  |

### APPLICATION INSTRUCTIONS

#### SUBSTRATE AND SURFACE PREPARATION

- Ensure the substrate has been correctly installed according to relevant standards and manufacturer recommendations.
- Ensure the substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) matter. All weak or friable material must be removed.
- Excess bitumen, adhesive or laitance should be removed by light scabbling or mechanical captive shot blasting or grinding, followed by vacuuming to remove debris and dust.

## APPLICATION INSTRUCTIONS Cont.

### SUBSTRATE AND SURFACE PREPARATION Cont.

- Large cracks or holes may be filled using Bostik UL Rapidset in accordance with the Technical Data Sheet.
- Allow for minimum curing time for screeds (1 day) and concrete (7 days).
- Check the cleaned surface by applying small amount of water. It will be easily absorbed if porous and will bead on the surface if not.
- Treat porous surfaces with Bostik Multiprime. Most non-porous surfaces may be treated with Bostik Ultra NP Primer.
- May be used to bond to existing tiles (300 x 300mm size limit for outdoor applications). Due to possible variables, extra surface preparation maybe required. Contact Bostik Technical Department for best recommended system.
- Contact Bostik before commencing tiling if there is any doubt about required or suitable preparation.

### MIXING

EvoFlex requires 5.5 – 6.0 litres of potable water per 20 kg bag (1kg into 250mL – 300 mL of water) and is best mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill.

To achieve optimum non-lipping performance, use 5.6 litres of potable water per 20kg bag.

- Add pre-measured water to a clean mixing bucket
- Gradually add EvoFlex into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bag have been added to the water, mix a smooth homogenous toothpaste consistency is achieved.
- Allow to stand for 2 minutes and mix again before using.

#### CAUTION

#### DO NOT MIX BY HAND.

#### DO NOT ADD EXCESS WATER.

The paste can “wet out” during mixing so ensure that it is mixed sufficiently before adding more water. Discard any hardened or stiffened compound that has formed in the mixing bucket. Further addition of water will NOT reconstitute a useable mixture

### APPLICATION

- Use 12mm notched trowel for 300 x 300mm tiles or larger. For tiles larger than 400 x 400mm, back-buttering of the tile is a must.
1. Use a straight edge of the trowel to apply a thin even coat to the prepared substrate.
  2. Immediately apply the adhesive and comb it using the notched side to achieve a levelled bed. Hold the trowel at a 45° angle.

3. Cover with tiles. Press tiles firmly to ensure full contact. Slide the tile perpendicular to the adhesive rib. Avoid having voids. Apply only up to 1 m<sup>2</sup> at a time to avoid skinning. If skinned re-spread to expose wet adhesive. Do not spot fix.
4. Discard any material that has hardened before use.
5. Allow the adhesive to harden adequately before grouting. Grouting can commence after 6 – 8 hours depending on the ambient conditions. It may take longer for colder temperature.

**All workmanship must be carried out in accordance with AS 3958.1-2007 and good workmanship practices.**

### COVERAGE

A 20kg bag of EvoFlex mixed with 5.5 – 6.0 litres of potable water will yield approximately 18 – 19 litres. On site coverage will vary widely as it is dependent on a large number of variables. These include but are not limited to: application technique, substrate texture, wastage, trowel angle, trowel wear, contact coverage and flatness. As such the following coverage is intended only as a guide.

As such coverage estimates are inaccurate. It is advised that comparisons between products are based on the mixed volume.

| When mixed bag yields 18 to 19 litres |                        |
|---------------------------------------|------------------------|
| Approximate Coverage (10mm trowel)    |                        |
| kg per m <sup>2</sup>                 | m <sup>2</sup> per bag |
| 2.8                                   | 7.0                    |

### GROUTING

Use Bostik Designer Grout or Bostik Design Epoxy Grout after the tiles appear firm. Bostik Designer Grout must be modified with Megalastic when tiling over a flexible substrate or when improved water resistance is required

### CLEAN UP

Remove excess adhesive using a wet cloth before the product hardens. If allowed to set it must be removed mechanically.

### POT LIFE

3 hours at 22°C and 50% relative humidity

### SETTING TIME

6 – 8 hours at 22°C and 50% relative humidity

Pot life and setting times will be influenced by ambient conditions. Shorter pot life and setting times should be expected in warm or dry conditions. Extra care should be given in warm or dry conditions to ensure the adhesive has not stiffened significantly before the tiles are applied.

## STORAGE & SHELF LIFE

12 months when stored off the ground in a cool, dry weatherproof environment.

## IMPORTANT NOTES

- All workmanship (including movement joints) must be carried out in accordance with AS3958.1-2007
- When fixing stone follow the recommendations in the Australian Stone Advisory Association (ASAA) Natural Stone Design Manual.
- Always read the entire Product Technical Datasheet and Safety Data Sheet (SDS) before using. Always check for the latest version.
- Use only tile surfaces that are suitable. If in doubt check with substrate manufacturer
- When tiling directly onto waterproofing membranes check to ensure compatibility. If not already approved by Bostik in writing, additional compatibility tests may be required
- If considering tiling over paint it must be well bonded, clean and sound. Abrade and clean enamel paints. Prime with Multiprime before tiling.
- Do not spot fix.
- Use only ambient conditions between 5 and 35 °C. Do not use in windy or very low humidity conditions
- Ensure that there are adequate falls when using on external or wet area floors.
- This product is not suitable for use with moisture sensitive materials.
- Not suitable for immersion (eg pools or water features)
- May be used to bond tiles to existing tiles, extra preparation may be required. When tiling outdoors the tile size is limited to 300x300mm. Ensure existing tile surface is sound and clean. Remove all cracked, drummy or otherwise unsound tiles and repair area appropriately. Due to the possible variables extra surface preparation may be required (including mechanical abrasion). Contact Bostik before work starts for further advice if Contact Bostik before work starts for further advice if required.
- Some surfaces such as plastic and metal will require special preparation and may not be suitable.
- When tiling walls do not exceed 2.7m and always check that it will support the intended weight.
- Do not use to tile directly onto timber, plywood, particleboard, MDF or Masonite.
- Contact Bostik for advice before work starts if substrates or tiles are unusual or non-

traditional or if there is any uncertainty regarding suitability or preparation

- In all cases, test areas must be performed to ensure suitability of the product for the intended use.

**All workmanship must be carried out in accordance with AS3958.1-2007 and good workmanship practices**

# EVOFLEX

## SAFETY PRECAUTIONS

SEE THE SAFETY DATA SHEET FOR ADDITIONAL INFORMATION. EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)

SDS can be downloaded from [www.bostik.com.au](http://www.bostik.com.au)

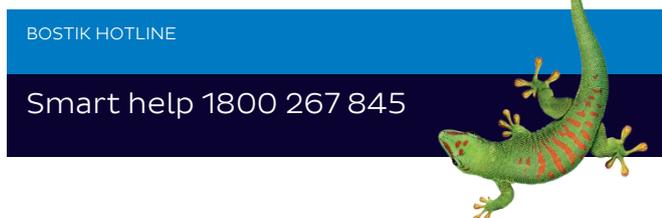
VOC – 0 g/Lt

[voccertificates.australia@bostik.com](mailto:voccertificates.australia@bostik.com)

## PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.bostik.com/au](http://www.bostik.com/au) for copies.

**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**



This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Australian Consumer Law (ACL). Sale of the product by Bostik is subject to the Bostik Australia Proprietary Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit [www.bostik.com/au](http://www.bostik.com/au)