



TIFLEX^{SL}TM

Technical Data Sheet

Suppliers of:

- **Silicone Sealants**
- **Polyurethane Sealants**
- **Waterproofing Membranes**
- **Tile Adhesives**
- **Construction Grouts**
- **Levelling Compounds**
- **Surface Sealers**
- **Protection Coatings**
- **Tools**
- **Primers & Admixtures**

Description:

TIFLEX-SLTM is a rapid hardening self-levelling single component cementitious underlay. TIFLEX-SLTM has been formulated to achieve a smooth flat surface with ease of application and maximum flow without any shrinkage or cracking.

Recommended Uses:

- Under laying for floor coverings such as carpet, ceramics tiles, etc.
- Fast repairs of uneven concrete floors.
- Residential, commercial and medium industrial application.
- Application thickness of feather edge to 30mm in a single application.
- New construction and refurbishment projects.
- Flat smooth surfaces over existing concrete slabs.
- Levelling existing uneven concrete floors.

Features and Benefits:

- Accepts foot traffic within 2 hours at 20°C.
- Reinstating large areas in relative short time periods.
- Very fast application.
- Dimensionally stable.
- Single component product.
- Installation can be carried out in one application.
- Rapid curing.
- Can be applied directly onto prepared concrete surfaces.
- Eliminates the need for sand and cement screeds.
- Floor covering can be applied next day.

Application Instructions:

Substrate and Surface Preparation:

Ensure the concrete substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) matter. Excess bitumen, adhesive, curing agent or laitance should be removed.

The method of removal should be by lightly scabbling or mechanical captive shot blasting, followed by the removal of debris and dust by vacuuming. Large cracks or holes may be filled using equal parts of TIFLEX-SLTM and clean fine sand made up to a trowelable consistency. Ensure the substrate is primed with B&L PrimmixTMBond prior to carrying out application. New Concrete floors must be at least 14 days old prior to application of TIFLEX-SLTM.

Note: New concrete floors need to be less than 5.5% moisture content prior to the application of TIFLEX-SLTM. If this cannot be achieved use B&L LeakproofTM Damp Seal as a moisture barrier.

Priming:

Prime clean dust free concrete substrate with B&L PrimmixTMBond using a brush, broom or roller. Allow primer to reach a tacky consistency before applying TIFLEX-SLTM.

Mixing of B&L PrimmixTMBond:

Mix ratio of 1:1 with water. For example mix 10 litres of clean water to 10 litres of B&L PrimmixTMBond giving a volume of 20 litres of Primer.

Note: Do not dilute more than 1 part of water to 1 part B&L PrimmixTMBond at any time. Compromising this mix ratio could cause delamination between substrates.

Apply Primer at 4-5m²/litre per coat.

DO NOT APPLY TIFLEX-SLTM TO UNPRIMED SURFACE

Do not allow for a dust film to cover primed area prior to the application of TIFLEX-SLTM. If this occurs the area must be reprimed with B&L PrimmixTM Bond prior to proceeding with application of



Manufactured and Packaged in Australia for:
B&L Quality Products Pty Ltd
PO Box 4432
Dandenong South, Victoria, 3164
Tel: +61 3 8793 9298
Fax: + 61 3 8793 9299
www.blqualityproducts.com.au

TIFLEX-SL™. For concrete substrates subject to rising damp or moisture content greater than 5.5% a hydrostatic coating is required. B&L Quality Products recommend that B&L Leakproof™ Damp Seal Moisture Barrier be used as the Primer. Floors treated with B&L Leakproof Damp Seal Moisture Barrier should be treated as a non porous surface and primed with B&L Primmix™Epoxy. (Contact B&L Quality Products for further information regarding this matter).

Mixing:

TIFLEX-SL™ requires 4.1 litres of water per 20kg bag. Add TIFLEX-SL™ to a clean mixing bucket of pre-measured water ensuring the product is being mixed during powder addition. When all the powder is added to the water, mix for a further 2-3 minutes until a smooth homogeneous consistency is obtained. TIFLEX-SL™ is supplied in a ready to use form requiring only the addition of water. Ensure the product is mixed for a minimum of 5 minutes. DO NOT MIX BY HAND: TIFLEX-SL™ must be mixed with a mechanical forced action mixer with a high shear stirrer. DO NOT ADD EXCESS WATER: Discard any material that has stiffened.

Placing Product on Substrate:

Pour the mixed material on the primed substrate and allow material to seek its own level. Material may be spread with a steel trowel, spreader or squeegee. Keep the trowel slightly inclined to obtain desired thickness. To ensure a uniform consistency and continuous flow application of TIFLEX-SL™, it is advised that subsequent mixes are ready to enable continuous pouring until the area to be levelled is complete. Protect the finished area from damage until TIFLEX-SL™ has dried. For very large areas TIFLEX-SL™ can also be applied using an automatic pump. (Contact B&L Quality Products for further information)

Curing:

No special curing is required. The addition of water to TIFLEX-SL™ after it has started to stiffen is not recommended and the product must be discarded.

Clean Up:

TIFLEX-SL™ should be removed from tools and equipment with clean water immediately after use.

Substrates:

For concrete substrates subject to rising damp or moisture content greater than 5.5% or are subject to greater than 70% humidity a moisture barrier is required. It is recommended the B&L Leakproof™ Damp Seal moisture barrier is used. Refer to B&L Leakproof™ Damp Seal technical data sheet for mixing ratios and application techniques.

Precautions:

TIFLEX-SL™ MUST NOT be used in areas subject to:

- Occasional or permanent wetting or where back water pressure is likely.
- TIFLEX-SL™ must not be permitted to come in contact with water at any stage during use.
- TIFLEX-SL™ is not designed as a wearing course or as a water proofing agent and should only be used an underlayment.
- To avoid rapid drying, protect applied TIFLEX-SL™ from direct sunlight or drying winds during actual application and whilst curing for up to 12 hours. If the substrate on to which TIFLEX-SL™ is applied cracks or moves, reflexive cracking will occur.
- Depending on the thickness and ambient temperatures TIFLEX-SL™ can be covered with flooring materials in 24 hours. For large and thick sections it is advised to check the moisture content of TIFLEX-SL™ prior to the application of floor coverings. New concrete surfaces must be at least 14 days old prior to application of TIFLEX-SL™. (Refer to Application Instructions for further instructions)

Performance Properties

Application Temperature:

Minimum	5°c
Maximum	30°c

Typical Working Time:

Temperature	Time
10°c	40-50 minutes
20°c	30-40 minutes
30°c	20-30 minutes

Typical Setting Times:

Vicat setting times at 20°c

Initial Set	20°c	50 minutes
Initial Set	30°c	40 minutes
Final Set	20°c	60 minutes
Final Set	30°c	50 minutes

Traffic Time 20°c:

Foot Traffic	2 hours
Vehicle Traffic	12 hours
Time to cover with floor	<10mm 12-18hrs
covering (overlay)	>10mm 24hrs
Check Moisture Content	Max 5.5% prior to application

Coverage:

The approximate coverages are obtained if mixed in accordance with recommended procedures and accurately measured water content.

Yields:

The approximate yields are obtained if mixed in accordance with recommended procedures and accurately measured water content. A 20kg bag of TIFLEX-SL™ mixed with 4.1 litres of water will yield approximately 13 litres. 77 bags will yield 1 cubic metre. A 20kg bag of TIFLEX-SL™ will cover approximately 1.2m2 at 10mm thick, 1m2 at 12mm thick and 2.5m2 at 5mm thick. The recommended application thickness ranges from feather edge to 30mm in a single application. (For very thick sections greater than 30mm Bulk Filling may be required - consult B&L Quality Products for further information).

Storage:

TIFLEX-SL™ has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

Health & Safety:

This product is classified as hazardous according to criteria of Work Safe Australia. Materials containing Portland cement and sand now fall into this category. Continuous or extended contact with this product may cause irritation as well as respiratory issues such as bronchitis or silicosis.

- During use avoid inhalation of dust and contact with skin and eyes.
- Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- Continual or extended contact with cement products can cause skin irritation.
- If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes.
- Material Safety Data Sheets (MSDS) are available on request from the office of B&L Quality products. Read the MSDS and Product Data Sheet carefully before using any product. Contact Poisons Information Centre on 13 11 26 or consult a medical advisor.

Warning:

The technical and recommended use of TIFLEX-SL™ is detailed to the best of our knowledge and experience, and must in every case be taken as merely indicative. All technical application and product data must be confirmed beforehand by the user/consumer before application of the adhesive to the tile and substrate. The user alone shall be fully responsible for the consequence of any misuse. If the intended use is in doubt, consult B&L Quality Products Pty Ltd for clarification of any issue.

Fire Risk:

TIFLEX-SL™ is Non-Flammable

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