

2000SC - FLEXILASTIC

SOUND CONTROL AND CRACK ISOLATION MEMBRANE

■ PRODUCT DESCRIPTION

Flexilastic 2000SC is a peel-and-stick sheet membrane that reduces impact and airborne sound transmissions and isolates finished flooring from subfloor cracks. It is designed for use with ceramic, porcelain and natural stone tile where sound absorption is required, specified or desired. For use under all ceramic tile and stone installations where isolation from existing or future stress, shrinkage, in-plane cracks up to 10 mm (3/8") in thickness is required. Flexilastic 2000SC in conjunction with Flextile 4000 and 4001 primers, can be applied to any structurally sound and clean surface, including concrete, plywood, gypsum underlayments, precast floor panels, OSB, ceramic tile, terrazzo, natural stone, leveling and patching compounds, cement backerboard and existing VAT, VCT and vinyl floors. Flexilastic 2000SC is also approved for application over radiant heated floors.

■ BASIC USES

Flexilastic 2000SC's sound absorption and crack isolation properties make it an excellent system to enhance ceramic, porcelain and stone flooring installation performance in:

- Condominiums
- Apartments
- Schools
- Office buildings
- Hotels
- Single-family homes

■ COMPOSITION AND MATERIALS

Flexilastic 2000SC is constructed of a top layer of reinforced polyester mesh fabric embedded into rubberized adhesive; a middle layer of dense, cross-linked polyolefin foam sheeting for sound reduction properties; and a bottom layer of aggressive rubberized adhesive with an attached release liner for peel-and-stick application. The underside of the membrane is tacky, providing superior adhesion to concrete, steel and wood substrates. The polyester mesh fabric top makes an excellent bonding surface for latex modified thin set and medium bed mortars. It contains no VOCs and is environmentally safe, which allows it to be used in confined areas. The aggressive rubberized adhesive retains its flexibility throughout the floor's life span and will not dry out or decay over time.

■ FEATURES

- Sound reduction: IIC: 71*; STC: 72*
- Increase in impact insulation (6" concrete) = 22.0
- Rated for Residential and Light Commercial service by ASTM C627-70 on concrete substrates.
- Bridges cracks up to 10 mm (3/8") in thickness.
- Tile or Stone may be applied immediately after installation.
- VOC free.
- Moisture resistant.
- Provides thermal insulation.
- Approved over radiant heated floors.

■ LIMITATIONS

- Flexilastic 2000SC is not intended for use as a waterproof membrane, or for use as an exposed traffic surface.
- Not recommended for use as a roofing membrane over occupied areas, or on unstable surfaces.
- Do not cover existing control or expansion joints - refer to appropriate detail for installation over these joints in current editions of TTMAC or TCNA Ceramic Tile Installation Handbooks.
- Not for use over structural movement cracks, or to cover cracks greater than 10 mm (3/8").
- Not recommended under negative hydrostatic conditions, where moisture vapor transmission exceeds 1.36 kg/92.9 m² (3 lbs./1000 sq. ft.) per 24 hours when using the calcium chloride test kit.
- Use only on surfaces which are maintained above 7°C (45°F), and below 49°C (120°F) during application.
- Primer must be allowed to dry to a tack prior to installing membrane.
- Not recommended for vertical applications in excess of 2.4 m (8') in height.
- Store Flexilastic 2000SC in dry conditions, between temperatures of 10°-32°C (50°-90°F).
- Do not expose stored material to direct sunlight.

■ TECHNICAL DATA

Exceeds ANSI A118.12 requirements

Typical Physical Properties

Thickness:	2.8 mm (110 mil)
Colour:	Grey top, black adhesive bottom
Elongation (ASTM D412):	500% minimum (rubberized adhesive only)
Application Temperature:	7°C (45°F) to 49° C (120°F)
Service Temperature:	-29°C (-20°F) to 82°C (180°F)
Robinson Floor Test (ASTM C627):	Rated for light commercial applications
Impact Isolation	Class (IIC) 71*
Sound Transmission	Class (STC) 72*
Increase in impact insulation (6" concrete) (ASTM E 2179-03) Δ IIC=	22.0
Shelf Life:	1 year when stored in a dry area in original shipping container at between 4°C and 35°C (40°F and 95°F)

* In conjunction with engineered floor/ drop ceiling sound control systems



SOUND PERFORMANCE

Flexilastic 2000SC has been tested by a certified independent acoustical laboratory in accordance with ASTM E492 and ASTM E90. Test effected over 20 cm (8") concrete slab with a sound rated ceiling. Test results were Impact Isolation Class (IIC) 71 and Sound Transmission Class (STC) 72. Test results with other subfloor configurations are available by contacting Flextile Ltd.

Package Size / Coverage

Flexilastic 2000SC: 914 mm x 12.2 m (36" x 40') roll

Flexilastic 4000 Primer: 3.78 L (1 US gal) & 18.9 L (5 US gal)

Flexilastic 4001 Primer 18.9 L (5 US gal)

Flexilastic 4000 Primer 8.4-9.8 m²/L (300-400 sq.ft. / gal U.S.)

Flexilastic 4001 Primer 3.7-4.9 m²/L (150-200 sq.ft./ gal U.S.)

LEED Points

MR Credit 4, Recycled Content*

MR Credit 5, Regional Materials*

IEQ Credit 4.1, Low-Emitting

Materials – Adhesives & Sealants

IEQ Credit 4.3, Low-Emitting

Materials – Flooring Systems

* Using Flexilastic 2000SC may contribute to LEED certification of projects as indicated above.

Contribution

Up to 2 points

Up to 2 points

1 point

1 point

PREPARATORY WORK

All surfaces must be clean, even, dry and free of grease, oil, loose paint, curing compounds or sealers, protuberances that may puncture membrane, or other foreign matter. Existing concrete surfaces which have been shot blasted, ground or sanded to remove contaminants must be thoroughly cleaned of dust, loose concrete, etc. prior to applying primer and membrane. Surfaces should be maintained at a temperature between 10°C (45°F) and 32°C (90°F) when applying membrane. New concrete surfaces must be fully cured, dry, finished to a wood float or light broom finish, and be true to within 6 mm (1/4") in 3 m (10'). **Apply a latex modified scratch coat consisting of Flextile 57 Scratch Coat Mortar mixed with Flextile 43 or 44 Latex Additive to existing concrete surfaces where abrasion cannot produce a porous enough surface, to uneven surfaces, and to all smooth-troweled concrete surfaces prior to applying Flexilastic 2000SC.**

Interior plywood surfaces should be designed for maximum deflection of L/360 of span. This normally requires a 16 mm (5/8") layer of exterior-grade plywood over 25 mm (1") boards or 16 mm (5/8") plywood when on joists 40 cm (16") o.c. Plywood sheets should be fastened with screw type nails and glued where possible. Leave a 3 mm (1/8") gap between top sheets of plywood and next to all vertical surfaces to allow for expansion.

Refer to current editions of TTMAC 09 30 00 Tile Installation Manual, or TCNA Handbook For Ceramic Tile Installation for information regarding placement of expansion or control joints, or for further substrate acceptability information.

APPLICATION - PRIMING

Interior Priming: DO NOT DILUTE PRIMER. Prime surfaces using Flextile 4000 primer AT FULL STRENGTH for most floor applications. Roll or brush primer onto surface at an approximate rate of 9 m²/L (360 ft²/gal). On vertical surfaces, and on porous or otherwise weathered horizontal surfaces apply two primer coats. Allow primer to dry completely prior to installing Flexilastic 2000SC (cured primer should be tacky, but well bonded to the substrate). **Exterior Priming:** Use same application techniques as for Interior, but use 4001 Primer.

APPLICATION

Once primer has dried, roll out membrane to cover the full length of the substrate. Lay out on substrate first, WITHOUT REMOVING BACKING PAPER. Cut the length approximately 305 mm (12") longer than the distance to be covered to allow for a trimmed fit. Pull one end of membrane length back over the other half, and carefully cut the backing paper at the half way point. Start removing the backing paper from the upper section and roll back onto primed substrate, ensuring that it is smoothed out as it is applied. Repeat the procedure for the other half of the membrane length, and for subsequent lengths required to cover the entire substrate. Ensure that air pockets and creases are smoothed out as the membrane is applied.

To ensure a positive bond between applied membrane sheet and primer, roll a 34.0 kg or 45.3 kg (75 lb or 100 lb) stand up roller over the installed membrane.

CURING AND TILE INSTALLATION

Tile or stone may be installed immediately after application of Flexilastic 2000SC. Install tile or stone with appropriate Flextile Latex Modified Mortar (ANSI A118.4). Recommended bond coat mortars include Flextile 50, 52, 56SR, 55LHT, 5400 Maxi-Flex, 58, 61, 62 one-component latex mortars, or Flextile 51, 53/43 or 51, 53/44 or 58XT two component latex mortar systems.

SAFETY

Refer to Flextile Safety Data Sheet for detailed health and safety information.

AVAILABILITY

Flexilastic 2000SC is available from Flextile Ltd. and listed distributors in Membrane: 914 mm x 12.2 m (36" x 40') rolls. 4000 Primer is available in 3.78 L (1 USG) and 18.9 L (5 USG) containers. 4001 Primer is available in 18.9 L (5 USG).

WARRANTY

Flextile warrants that this product is of merchantable quality and is suitable for the purpose for which it is intended. Flextile's liability under this warranty shall be limited to replacement of its product found to be defective or, at its option, a refund of the purchase price. Extended project warranties are available for Flexilastic. Contact Flextile Ltd. or its distributors.

MAINTENANCE

No maintenance is required except where damages result from unforeseen circumstances. Repair procedures shall be directed by Flextile or its distributors.

TECHNICAL SERVICES

Flextile maintains a well-equipped laboratory able to test its products in conjunction with the products with which they are used. Technical assistance for use of Flextile products is available upon request.

RELATED REFERENCES

Current editions of: Ceramic Tile Installation Manual (09 30 00) from the TTMAC & TCNA Ceramic Tile Installation Handbook.



Notice: The information herein is the best information we have relating to our products and the recommended uses of our products are based on tests believed to be reliable. Flextile warrants each of its products is of merchantable quality and suitable for the purpose for which it is intended BUT DOES NOT MAKE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED. This Warranty may not be enlarged or extended by our sales representatives, written sales information or drawings. Liability of Flextile under this warranty shall be limited to replacement of its product found to be defective or, at its option, a refund of the purchase price. All advice given and structural specifications supplied by Flextile representatives shall be used at the sole risk of those receiving the same and Flextile assumes no responsibility for the design or construction of any works in which its products are used. Any review or inspection of plans, buildings or product applications by Flextile representatives is not to be construed as approval thereof by Flextile. This information supersedes all previous issues and is subject to change without notice.