

2000SC - FLEXILASTIC

SOUND CONTROL and CRACK ISOLATION MEMBRANE

PRODUCT DESCRIPTION

Flexilastic 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. It has the flexibility and strength to withstand structural movement and concrete shrinkage cracks up to 3/8" (9.5 mm) without transferring stress load to finished tile. In addition, excellent moisture resistant properties make this a most comprehensive underlayment for tile floors.

Flexilastic in conjunction with Flextile 4000 primer, 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 is also approved for application over radiant heated floors.

BASIC USES

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

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

COMPOSITION AND MATERIALS

Flexilastic 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 latexmodified thinset 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) Δ IIC = 16.0
- For both Interior and Exterior applications
- For both Commercial and Residential use
- Bridges cracks up to 9.5 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 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.

Not recommended under negative hydrostatic conditions, where moisture vapor transmission exceeds 3 lbs. Do not cover existing control or expansion joints. Not for use over structural movement cracks, or to cover cracks greater than 9.5 mm (3/8"). Use only on surfaces which are maintained above 7°C (45°F), and below 49°C (120°F) during application.

Do not apply over marine-grade plywood or other substrates containing solvent based waterproofing preservatives that could chemically react with the membrane.

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 Membrane in dry conditions, between temperatures of 10° - 32° C (50° - 90° F). Do not expose stored material to direct sunlight.

Do not remove material from box until ready to use.

TECHNICAL DATA

Exceeds ANSI A118.12 requirements

Typical Physical Properties

Thickness:	2.8mm (110 mil)
Colour:	Gray 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 =	16.0

* **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 20cm (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 18.9L (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.)

PREPARATORY WORK

All surfaces must be clean, even, dry and free of grease, oil, loose paint, curing compounds or sealers, protrusions 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 membrane.**

Interior plywood surfaces should be designed for maximum deflection of 1/360 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.

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 membrane (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 34,0kg or 45,3kg (75lb. or 100lb) standup roller over the installed membrane.

CURING AND TILE INSTALLATION

Tile or stone may be installed immediately after application of Flexilastic Membrane. Install tile or stone with appropriate Flextile Latex Modified Mortar (ANSI A118.4). Recommended bond coat mortars include Flextile 50, 52, 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 Material Safety Data Sheet for detailed health and safety information.

AVAILABILITY AND COST

Flexilastic Sheet Membrane 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 18.9L (5 USG).

Cost data is available upon request, from Flextile distributors (refer to Flextile distributors @ www.flextile.net).

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.