

# SOUND ZERO PEEL & STICK



## DESCRIPTION

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Sound Zero Peel & Stick is a membrane with an adhesive backing ideal for reducing sound transmission and for use as an anti-fracture membrane. It is a rubberised asphalt membrane laminated onto a non-woven polyester fabric on the face and a siliconised removable release sheet on the adhesive side.

## USES

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Sound Zero Peel & Stick is ideal for use under ceramic tile, slate, stone, bamboo and hardwood floors in many applications including;

- Office buildings
- Airports
- Shopping centres
- Hotels
- Homes
- Apartments
- And other areas where cracking floors or sound transmission may be a problem.

## FEATURES AND BENEFITS

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- Sound Zero Peel & Stick remains permanently flexible and forms a strong bond to concrete slabs, levelling compounds, timber, heated floors and ceramic tiles.
  - Sound Zero Peel & Stick in many situations eliminates the use of cement sheet underlayment.
  - Sound Zero Peel & Stick may be used for full coverage, or is thin enough to be installed over cracks and control joints without causing unevenness in the finished tile bed or wood flooring.
  - A very strong reinforcing fabric is an excellent bonding surface for Davco polymer modified mortars.
  - Engineered to withstand high point loading for all types of commercial applications, Sound Zero Peel & Stick is environmentally safe and is V.O.C. compliant.

## APPLICATION

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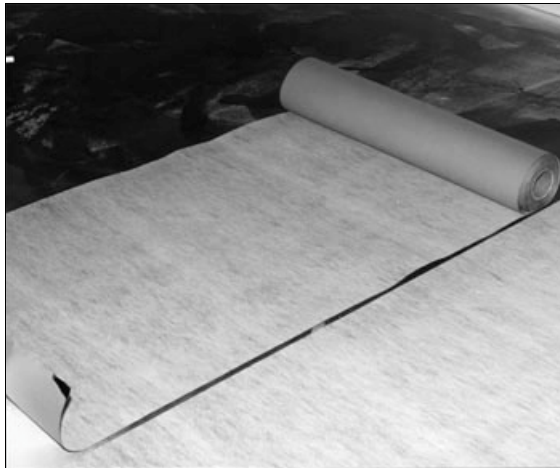
### Surface preparation

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds and any other loose or contaminating materials.
- Steel trowel finished concrete must be acid etched or mechanically abraded prior to applying Sound Zero.
- Mechanically remove all paint and contaminants.
- The membrane should be 300mm wider than the size of the tile on either side. (ie. 300 x 300 tile on membrane 900mm wide).
- For Sound Reduction, cover the entire substrate and overlap joints by 25mm.

### Installation

- Pre-cut membrane to fit the size of area to be covered.

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- Roll back membrane to expose the substrate.
- Apply Lanko 751 Lankolatex SBR diluted 1:1 with water as a primer to the prepared substrate.
- Allow primer to dry completely (depending on ambient temperature, 15 - 20min).
- Roll the material back into place over the primed surface. Lift the leading edge and cut the backing paper approximately 50mm from the end.
- Peel the backing paper from this edge and press into place.
- Roll the material back toward the starting position and peel the backing paper again.
- Pull the backing paper and use the paper as your guide to ensure proper alignment with walls and other sheets.
- Should creases develop or debris needs to be removed from beneath the membrane, Sound Zero Peel & Stick can be cut and repaired with a knife.

- Once installed, tiles or other floor coverings can be applied to the membrane immediately. No waiting time is required.

## Tile Adhesives

- For maximum sound insulation, it is recommended that Tradeflex Two Part Tile Adhesive be used to adhere tiles to Sound Zero Peel & Stick
- Other Davco adhesives including SMP 2010 and the SE 7 /Davelastic (1:1) system may be considered if the acoustic properties of the two part adhesives are not required. For specific details on the application of adhesives, refer to the individual product datasheet.

## Grouting

- Grouting should not be carried out for at least 24 hours after the completion of tiling. For grout joints 1-6mm wide use Davco's *Sanitized*<sup>®</sup> ColorgROUTS. For grout joints 6-12mm wide use Davco Slate and Quarry Grout. Refer to the individual product datasheet for more information.

## PRECAUTIONS

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- Protect membrane from spills, contamination and damage during tilework to ensure a positive bond between the mortar and the membrane.
- Do not use in wet areas without the application of a waterproofing membrane.

## PACKAGING

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- Sound Zero Peel & Stick is available in 14m<sup>2</sup> rolls (approx. 915mm wide x 15.25 metres long).
- Ormonoid Cement Mix Fortifier is available in 1L, 4L and 20L containers.

## SHELF LIFE

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- Up to 12 months in unopened containers stored in a cool dry place.

## TECHNICAL DATA

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Properties:

Weight: approx 25kg / roll

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Thickness:	approx 1.4mm
Tensile: - ASTM D 412(C)	3.448 Mpa
Elongation: - ASTM D 412(C)	300%
Permeance: - ASTM E 96(B)	0.05perms
Pliability: - ASTM D 146	Passes at 31°C 1.6mm mandrel
Crack Cycling: - at 23°C	Passes 100cy
Peel Strength: - ASTM D903	0.1226N/m width
Puncture Resistance: - ASTM E 154	17.5kg (min)
Lap Adhesion: - D 1876 MOD	0.1226N/m width
Water Absorption: - ASTM D 570	0.12% by wt

## Sound Rating: -

### Airborne Sound

ISO 140-3

Weighted Sound Reduction Index ( $R_w$ )	: 70dB
The Adaption Factor ( $C_{tr}$ )	: -9 dB
$R_w + C_{tr}$	: 61dB

### Impact Sound

ISO 140-7: 1998 & 717-2: 1998

The following information, details the specific test panel used in the undertaking of Sound Rating and Traffic testing for Davco's Sound Zero Peel & Stick:

Weighted Standardised Impact Sound  
Pressure Level  $L_{nT,w} + C_i$  : 57

ASTM E1007-97 & E989-89

Impact Isolation Class IIC : 54

### Trafficability:

ASTM C627 "Extra Heavy" Service Rating  
(Robinson Type Floor Test)

## AIRBORNE SOUND RATING

### BCA Requirements

BCA Deemed-to-Satisfy Provisions apply to wall/floor systems that are tested in the laboratory. For airborne sound insulation the requirements are:

- $R_w + C_{tr}$  not less than 50 for walls between dwellings; and
- $R_w$  not less than 50 for walls separating a dwelling from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification; and
- $R_w + C_{tr}$  not less than 50 for floors between dwellings and between dwellings and a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification.

For building elements tested on-site, the airborne sound insulation requirements are as follows:

- $D_{nT,w} + C_{tr}$  not less than 45 for walls between dwellings; and
- $D_{nT,w}$  not less than 45 for walls separating a dwelling from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification; and
- $D_{nT,w} + C_{tr}$  not less than 45 for floors between dwellings and between dwellings and a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a difference classification.

### Davco Sound Zero Peel & Stick Performance

STANDARD	TEST PANEL DESCRIPTION	RESULTS
ISO 140-3	<ul style="list-style-type: none"> <li>• 12mm unglazed Quarry Tiles</li> <li>• 3-4mm Thin bed mortar</li> <li>• Sound Zero Peel &amp; Stick</li> <li>• 150mm reinforced concrete slab</li> <li>• 300mm ceiling plenum, with 44mm fibreglass insulation</li> <li>• 8mm plasterboard ceiling</li> </ul>	<p><math>R_w</math> - Weighted Sound Reduction Index = 70dB</p> <p><math>R_w + C_{tr} = 61dB</math></p>



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## IMPACT SOUND RATING

### BCA Requirements

The new BCA Deemed-to-Satisfy Provisions require the  $L'_{n,w} + C_i$  of a floor to be determined by testing in the laboratory. The impact sound insulation requirements for floors are:

- $L'_{n,w} + C_i$  not more than 62 for floors separating dwellings and for floors separating dwellings from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification.

The terms to describe the impact sound insulation rating of a floor when tested on-site, is the weighted standardised impact sound pressure level ( $L'_{nT,w}$ ) plus the spectrum adaptation term ( $C_i$ ).  $L'_{nT,w} + C_i$  is similar to the laboratory term  $L'_{n,w} + C_i$ . For floors tested on-site, the impact sound insulation requirements are as follows:

- $L'_{nT,w} + C_i$  not more than 62 for floors separating dwellings and for floors separating dwellings from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification.

### Davco Sound Zero Peel & Stick Performance

STANDARD	TEST PANEL DESCRIPTION	RESULTS
ISO 140-7:1998 & ISO 717-2:1998	<ul style="list-style-type: none"> <li>• 8mm approx Ceramic Tiles</li> <li>• 3-4mm Thin bed mortar</li> <li>• Sound Zero Peel &amp; Stick</li> <li>• 200mm reinforced concrete slab</li> <li>• 10mm plasterboard ceiling on furring channels</li> </ul>	Weighted Standardised Impact Sound Pressure Level $L'_{nT,w} + C_i = 57\text{dB}$
ASTM E1007-97 & ASTM E989-89	<ul style="list-style-type: none"> <li>• 8mm approx Ceramic Tiles</li> <li>• 3-4mm Thin bed mortar</li> <li>• Sound Zero Peel &amp; Stick</li> <li>• 200mm reinforced concrete slab</li> <li>• 10mm plasterboard ceiling on furring channels</li> </ul>	IEC –Impact Insulation Class = 54 dB

## TRAFFICABILITY

STANDARD	TEST PANEL DESCRIPTION	RESULTS
ASTM C627 (Robinson Type Floor Test)	<ul style="list-style-type: none"> <li>• 10mm(approx) Paver Tiles</li> <li>• 3-4mm Thin bed mortar</li> <li>• Sound Zero Peel &amp; Stick</li> <li>• 50mm concrete slab</li> </ul>	“Extra Heavy” Service Rating.

## DISCLAIMER

*The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. All workmanship must be carried out in accordance with AS 3958.1 - 1991.*

*The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.*

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