



SOUND ZERO 2-PART

DESCRIPTION

Davco Sound Zero 2-Part is a two part flexible ceramic tile Underlay applied to floors prior to tiling to reduce sound transmission within the tiling system and also absorb minor movement within the substrate.

USES

Davco Sound Zero 2-Part 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 sound transmission may be a problem.

FEATURES AND BENEFITS

- Davco Sound Zero 2-Part remains permanently flexible and forms a strong bond to concrete slabs, levelling compounds, timber, heated floors and ceramic tiles.
- Davco Sound Zero 2-Part is easy to bond to, making subsequent adhesion of the ultimate floor covering an easy task.
- Davco Sound Zero 2-Part can be used for both internal and external applications. But when the Sound Zero 2-Part is used in external or wet areas, a waterproofing membrane such as Davco's K10 Plus must be applied over the Sound Zero 2-Part.

SURFACE PREPARATION

- All surfaces must be structurally sound, dry, clean and free from dirt, dust, oil, grease, wax, paint, curing compounds and all other loose or contaminating materials.
- Masking of the skirting and other adjacent areas is necessary in order to prevent them from being marked by the Underlay.
- New concrete surfaces must be allowed to cure for 6 weeks, and should have a wood float finish.
- Newly screeded surfaces must be allowed to cure for at least 7 days and have a wood float finish.

- Timber floors or fibre cement sheeting must be fixed according to the manufacturer's instructions and the relevant Australian Standard.
- Porous/dusty surfaces must initially be primed using Davco Ultraprime.
- Certain non-absorbent/contaminated surfaces can easily be prepared for tiling via the use of Davco Ultrabond. Refer to Ultrabond's data sheet for further details and suitability.

MIXING

- Davco Sound Zero 2-Part is a two component product, which is mixed on site.
- Each 30kg of the powder requires 20 litres of the liquid. Mix 1.5kg powder to 1kg liquid when mixing by weight. Mix 2 parts powder to 1 part liquid when mixing by volume.
- Firstly, stir the liquid thoroughly. Gradually add the powder to the liquid, stirring constantly, until all the powder is evenly mixed with the liquid.
- **Note:** Hand mixing is not recommended. Use a heavy-duty electric drill fitted with a mechanical stirrer.

APPLICATION

- Pour the mixed Davco Sound Zero 2-Part onto the surface and spread it using either a steel hand trowel or a squeegee, to a thickness of 4mm - 5mm.
- If more than 5mm is required, apply the underlay in layers ensuring that each previous layer has thoroughly dried.
- As a guide, the underlay at a thickness of 5mm will take 24 hours to cure at 20°C.
- Ensure the Sound Zero 2-Part has dried prior to tiling.

Tile Adhesives

- For maximum sound insulation, it is recommended that one of Davco's two part adhesives are used. The best product for this application is Black Label. For specific details on the application of adhesive, refer to the individual product datasheet for more information.
- Other flexible Davco adhesives such as Ultraflex and the SE-7 with Davelastic system can be used, however the sound rating result will not be as effective.



SOUND ZERO 2-PART

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*[®] Colorgrouts. For grout joints 6-12mm wide use Davco Slate and Quarry Grout. Refer to the individual product datasheet for more information.

PRECAUTIONS

- Do not allow the Davco Sound Zero 2-Part liquid to freeze.
- Do not use Davco Sound Zero 2-Part in temperatures above 40°C and below 5°C.
- Do not expose the Davco Sound Zero 2-Part to moisture whilst curing.
- For other uses or the use of Davco Sound Zero 2-Part over substrates/situations not mentioned in these instructions, contact your ParexDavco (Australia) Pty Ltd state office.
- For a full MSDS on the product contact your ParexDavco (Australia) Pty Ltd State Office.

COVERAGE

One 20L drum of the liquid mixed with 30kg of the powder covers approximately:

- 10m² at a thickness of approximately 5mm.

CLEAN UP

Excess Underlay and tools can be cleaned up using warm water while the Underlay is still wet.

PACKAGING

The Davco Sound Zero 2-Part system consists of 20 litre liquid/ 30 kg powder (3x 10kg).

SHELF LIFE

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

TECHNICAL DATA

Properties:

Specific Gravity (Mixed):	0.9kg/L
Working Time at 20°C:	20 -30 minutes
Pot Life at 20°C:	2 - 3 hours
Drying Time at 20°C:	24 hours

PAREX DAVCO

ParexDavco (Australia) Pty Limited

ABN 28 093 876 558

67 Elizabeth Street Wetherill Park NSW 2164 Australia

Telephone: 61 2 9616 3000 Facsimile: 61 2 9725 5551

Toll Free Technical Advice Line: 1 800 653 347

Email: technical@parexdavco.com.au Website: www.parexdavco.com.au





SOUND ZERO 2-PART

IMPACT SOUND RATING

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 Acoustic Underlay Performance

STANDARD	TEST PANEL DESCRIPTION	RESULTS
ISO 140-7:1998 & ISO 717-2:1996	<p>Tiles:</p> <ul style="list-style-type: none"> • 10mm thick marble tile, 300mm x 300mm <p>Adhesive:</p> <ul style="list-style-type: none"> • Davco Black Label 2-Part Adhesive nominally 3mm thick <p>Underlay:</p> <ul style="list-style-type: none"> • Davco Sound Zero 2-Part, nominally 3 – 5mm thick. <p>Substrate:</p> <ul style="list-style-type: none"> • Reinforced concrete slab (not post-tensioned) 200mm thick, 40MPa <p>Ceiling:</p> <ul style="list-style-type: none"> • 10mm plasterboard on Rondo battens with 50mm cavity above the living/dining room and 300mm cavity above the kitchen area. 	<p>Weighted Standardised Impact Sound Pressure Level</p> <p>$L'_{nT,w} + C_i$</p> <p>63 + -3 = 60dB</p>
ASTM E1007-97 & ASTM E989-89	<p>Tiles:</p> <ul style="list-style-type: none"> • 10mm thick marble tile, 300mm x 300mm <p>Adhesive:</p> <ul style="list-style-type: none"> • Davco Black Label 2-Part Adhesive nominally 3mm thick <p>Underlay:</p> <ul style="list-style-type: none"> • Davco Sound Zero 2-Part, nominally 3 – 5mm thick. <p>Substrate:</p> <ul style="list-style-type: none"> • Reinforced concrete slab (not post-tensioned) 200mm thick, 40MPa <p>Ceiling:</p> <ul style="list-style-type: none"> • 10mm plasterboard on Rondo battens with 50mm cavity above the living/dining room and 300mm cavity above the kitchen area. 	<p>FIIC Bare Floor = 33</p> <p>FIIC Underlay & Covering = 48</p> <p>Difference/Improvement = 15</p>

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.

Davco

Davco Construction Materials Pty Limited

ABN 28 093 876 558

67 Elizabeth Street Wetherill Park NSW Australia 2164

Telephone: 61 2 9616 3000 Facsimilie: 61 2 9725 5551

Toll Free Technical Advisory Line: 1800 653 347

Offices: Sydney, Melbourne, Brisbane, Perth, Singapore, Thailand & Malaysia

Email: marketing@davco.com.au Website: www.davco.com.au

PAREXGROUP