AcoustaMat
#1 selling acoustic underlay

DATA SHEET

Effective February 1, 2013

Product Overview

"Deemed to satisfy" the requirements of the Building Code of Australia

AcoustaMat acoustic underlay products have been individually tested at the CSIRO Laboratory in Melbourne in accordance with the requirements of ISO 140-8 – Part 8: "Measurement for the reduction in transmitted impact noise by floor coverings on a standard floor. AcoustaMat complies with ISO 140-6 "Measurement of sound insulation in buildings and building elements – Part 6: Laboratory measurement of sound insulation of floors" All products were tested at the CSIRO which employed a 150mm concrete slab only at the time of testing.

The source and transfer from one level to another varies in accordance with each individual building construction. AcoustaMat products are specifically designed for the reduction of impact sound to suit both concrete and timber sub surfaces and has been specifically engineered to meet the acoustical requirements of specifiers for all common construction and installation methods.

AcoustaMat products are proven to suit to a wide range of finished flooring surfacing including rubber, timbers, laminates, bamboo, ceramics, vinyl, carpets and can be laid in wet areas when installed with a compatible waterproof membrane system.

The AcoustaMat 720 and 930 density cork/rubber products are recommended under floor types where extreme point loading (heavy objects) may be an issue e.g. for direct stick tile, parquetry and vinyl application. These product formulas contain 30% of a 4mm granulated cork to act as stabilising piers when heavy loads are applied. Permanent resilient elasticity at a recycled price ensures AcoustaMat it is the right choice for every application.

Benefits and Advantages

- Australian made
- Green star rated – Eco friendly (made from Australian recycled rubber)
- Designed for use with standard installation techniques.
- Suited to High Rise, multi storey town houses, commercial and domestic usage
- Suitable for loose lay and direct stick applications
- Can be used in conjunction with underfloor heating systems
- Outstanding compressive strength and load bearing capacity
- Limits floor to ceiling heights
- Has excellent temperature range capacity
- Resistant to mould and mildew
- Permanently resilient

Recommendation

AcoustaMat products are specifically designed for the reduction of impact sound. The source of transfer noise from one level to another varies in accordance with each individual building and A1 Rubber strongly recommends testing insitu by a registered Acoustic Engineer to establish suitability of purpose. To guarantee the performance of the proposed installation A1 Rubber offers free samples for testing purposes only.

soundblock SOLUTIONS | solving your noise problems

Ligon 216 Pty Ltd ABN 79 003 068 trading as Soundblock Solutions
P.O. Box 813 Woollahra NSW 1350

Tel: 61 2 9327 7410 • **Fax:** 61 2 9327 1077 • **Mob:** 0418 409 504
Email: enquiry@soundblock.com.au • **Website:** www.soundblock.com.au

AcoustaMat
#1 selling acoustic underlay

DATA SHEET

Effective February 1, 2013

Specifications

AcoustaMat				
	700	720 Cork	850RG	930 Cork
Material	Polymerically bound black recycled rubber	Polymerically bound black recycled rubber and granulated cork	Polymerically bound black recycled rubber and re-grind rubber	Polymerically bound black recycled rubber and granulated cork
Appearance	Black	Beige and black	Black with multi-coloured flecks	Beige and black
Density	700kg/m³	720kg/m³	850kg/m³	930kg/m³
Thickness	5mm	3mm, 4mm, 5mm	3mm, 4mm, 5mm	3mm, 4mm, 5mm

Tolerance	Roll width - ± 1.5% Roll length - ± 1.5% Thickness - ± 1.0mm Density - ± 5.0%
Dimensions	1.2m wide with various roll length options

VOC Emissions Certification Office Design IEQ-13 Office Interiors IEQ-11	Total Volatile Organic Compound emission rate 0.2mg/m²/hr (24 hours)

Impact Sound Reduction - All systems conducted at CSIRO Laboratory on 150mm concrete slab	
3mm plank vinyl @ min. thickness	ΔLw = 20dB
Vinyl	ΔLw = 22dB
Engineered timber/laminate floating/solid timber/plywood systems	ΔLw = 18 dB
Ceramic tiles	ΔLw = 18 dB
Carpet	ΔLw = 30 dB

Tests carried out by CSIRO to the EN ISO 140-8 standard

Physical Properties Range	
Tear Resistance @ 5mm	Approx 3.1N/mm² (ISO 4674.1-2003 (E))
Hardness (Shore A)	20.0 - 40.0 (ASTM D2240-2003)
Elongation at Break	20.0 - 37.5% (AS2001.2.3.2-2001)
Temperature Range	-25°C to 80°C

Applications

For high-rise units, multi-storey townhouses and homes. Suitable for new and old buildings requiring impact sound insulation for the installation of timber, laminate, carpet, plank vinyl/vinyl over Masonite or ceramic floors. Can be installed on timber and concrete sub-bases. Can be used in wet areas when installed in conjunction with a suitable waterproof membrane system.

Disclaimer

All flooring was installed to the manufacturers' specifications. All adhesives were applied to the manufacturers' specifications. All AcoustaMat was butt joined and cut to cover the area required. These tests were carried out by the Commonwealth Scientific and Industrial Research Organisation (CSIRO) under strict laboratory conditions. The source and transfer of noise from one level to another varies in accordance with each individual building construction. The information provided is given as an example of the performance of A1 Rubber impact sound acoustic underlays only. The results provided are not to be read as a guarantee for any specific application.
A1 Rubber recommends testing in situ to determine the exact performance of these systems in your project by a registered acoustic engineer. All applications of these products are subject to our standard Terms and Conditions of Sale.

Document No. ACMRFEB13DATA

soundblock SOLUTIONS | solving your noise problems

Ligon 216 Pty Ltd ABN 79 003 799 068 trading as Soundblock Solutions
P.O. Box 813 Woollahra NSW 1350

Tel: 61 2 9327 7410 • **Fax:** 61 2 9327 1077 • **Mob:** 0418 409 504
Email: enquiry@soundblock.com.au • **Website:** www.soundblock.com.au