

# Product Data Sheet

# SP-MAT



## Acoustic Soundproof Underlay

### DESCRIPTION

**ACT SP-MAT** is an acoustic soundproof underlay. Specifically designed for the reduction of impact sound to suit both concrete and timber substrates. **SP-MAT** has been specifically engineered to meet the acoustical requirements of specifiers for all common construction and installation methods.

For use in high-rise units, multi storey town houses and homes. **SP-MAT** can be used in new and old buildings requiring impact sound insulation. **SP-MAT** can be used for the installation of ceramic floors, timber, laminate, carpet, plank vinyl, and over Masonite.

### FEATURES & BENEFITS

- ◇ Australian Made
- ◇ Eco Friendly
- ◇ Designed for use with standard installation techniques
- ◇ Suited to high rise, multi storey town houses, commercial and domestic usage.
- ◇ Direct stick applications
- ◇ Can be used in conjunction with under floor heating systems
- ◇ Outstanding compressive strength and load bearing capacity
- ◇ Has excellent temperature range
- ◇ Resistant to mould and mildew
- ◇ Permanently resilient

### SUITABLE FOR

- ◇ Ceramic Tiles
- ◇ Timbers
- ◇ Laminates
- ◇ Vinyl
- ◇ Carpets
- ◇ Wet areas (when installed with ACT WP-1 or ACT approved waterproofing membrane)
- ◇ New & Old Buildings
- ◇ Can be installed over concrete and timber substrates.

### PERFORMANCE DATA

CSIRO tests results on 200mm concrete slab.

A 3600mmx3000mm **SP-MAT** 3mm and 4mm (720D) were adhered to concrete slab with **ADH-33** premium polymer rubber modified adhesive using a 6mmx6mmx6mm notch trowel.

600mmx600mmx8mm glazed porcelain tile adhered to **SP-MAT** with **ADH-33** using a 12mmx12mmx12mm notch trowel. Tiles were grouted using **GRT-20** hydrophobic-sanded grout.

**SP-MAT** 3mm  $L_{n,w} = 62$

**SP-MAT** 4mm  $L_{n,w} = 60$

CSIRO Acoustic Measurement Report No. INR218-01-1 and INR218-03-1.

Contact **ACT Australia** for further details.

No ceiling beneath 200mm thick concrete slab.

**SP-MAT** is 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 ACT Australia strongly recommends independent testing insitu by a registered Acoustic Engineer to establish suitability of purpose.

*All flooring was installed to the manufacturers' specifications. All adhesives were applied to the manufacturers' specifications. 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 ACT Australia SP-MAT 3mm impact sound acoustic underlay only. The results provided are not to be read as a guarantee for any specific application.*

### COVERAGE

**SP-MAT** is available in 3mm, 4mm and 5mm options. One roll of **SP-MAT** 3mm will cover 18m<sup>2</sup>. One roll of **SP-MAT** 4mm will cover 12m<sup>2</sup>. One roll of **SP-MAT** 5mm will cover 12m<sup>2</sup>.

### SUBSTRATE PREPARATION

All substrates must be clean, dry, free from dust, wax, grease, oil, laitance, curing compounds and release agents. Flexible building boards such as F/C sheeting and plasterboard must be fixed in accordance with the manufacturers written instructions. Excessive dust should be removed by sponging down substrate with clean water before adhering **SP-MAT**. ACT Australia **SCR-100** Pre-blended Screed must be allowed to cure for a minimum of 24 hours. Generic sand and cement screed must be allowed to cure for a minimum of 7 days. Concrete must be allowed to cure for a minimum of 28 days.

### APPLICATION

Apply **ADH-33**, **ADH-44** or **ADH-55** with a minimum 6mm notch trowel. Roll mat into wet (un-skinned) adhesive; ensure the mat is pushed into adhesive by using a large wooden float or roller to ensure no voids are created.

Acoustic results will vary from site to site due to a number of factors including; floor/ceiling configuration, concrete thickness and density etc. It is recommended individual site acoustic testing is carried out to ensure product meets client requirements.

### SAFETY

Each roll of **SP-MAT** 3mm weighs 40kg. Practice good manual handling techniques, use a trolley when lifting and moving rolls.