ACOUSTIC UNDERLAYS

ACOUSTIC FLOOR UNDERLAY

Underlayment Products for

Impact Sound Control

ANNOYED BY THE LOUD NOISES IN YOUR BUILDING, HOME, HOTEL OR OFFICE? IT'S TIME TO TAKE NOISE POLLUTION SERIOUSLY!

Do you know that noise pollution can have adverse effects on you? Noise-induced hearing loss can be caused by long or repetitive exposure to sounds at or over 85 dB for example heavy city traffic. Constant exposure to loud noise or impact sound can cause increased tiredness, lack of concentration, problem with sleep and can cause increased possibility of chronic diseases.

Sound reduction solutions should be considered during the design and construction stages of residential and commercial structures. They are a must-have for any house or office facility that wants to maintain a calm, quiet, and tranquil environment.

Noise will be absorbed, reflected, or transmitted by your walls, ceiling, and flooring when it is made within your structure. Sound treatment has two goals:

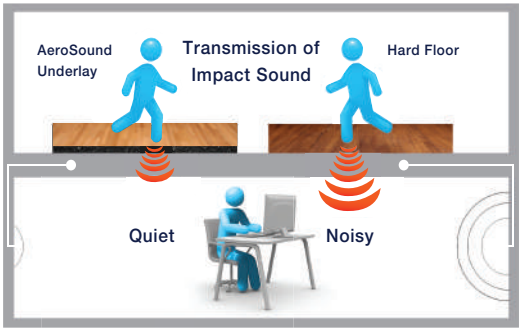
(1) To prevent sound transmission from room to room and floor to floor (structure noise).

(2) To reduce background noise to improve the quality of conversation or music within rooms. Acoustic flooring is a cost-effective and efficient approach to improve a room's acoustics.

Acoustic flooring in general, inhibit the transmission of two forms of noise:

A. Impact Noise

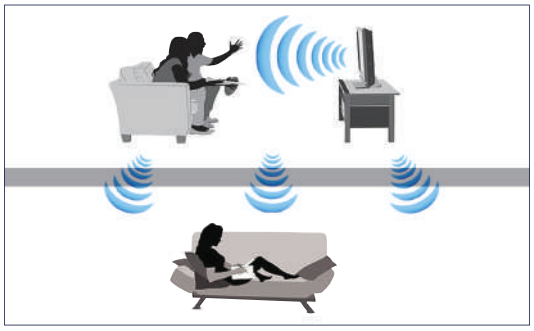
Floors take the brunt of impact within your facility, whether from foot traffic, carts, playgrounds for kids, gyms, dancing floors or vibrating machinery. The sound energy released by the hit can be carried through your building's structure, causing noise distortion, and upsetting workers, guests, or residents.



It is a serious design issue once the accurate acoustic material is not selected properly. It is relatively easy and cheap to select, design and install such material when the building is under construction. It becomes much more expensive and difficult to do soif the problem occurs once the occupants start using/living in the building. Sometimes it is even impossible to fix it. The implementation of the accurate underlay acoustic solution has to be done from the top side of the structure slab - never from the bottom.

B. Airborne Sound

Loud conversation, singing, sound speakers, musical instruments and HVAC equipments are the most common sources of airborne sound. Airborne sound can be also a part of structure noise that can travel through your flooring into other areas of your building.



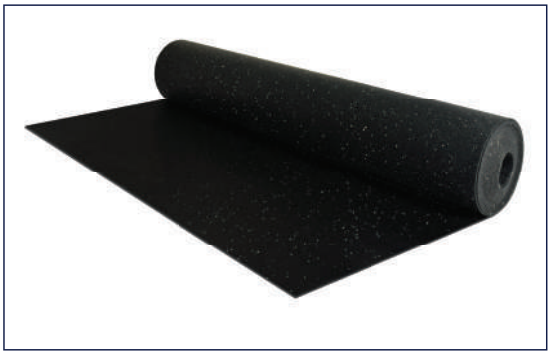
If properly selected and implemented, acoustic underlays are one of the most effective and affordable solution to improve overall indoor living environment which can prevent noise intrusion from our neighbors and in between floors.

Acoustic Floor underlay is appropriate for any application that requires sound and vibration reduction, as well as durability and resilience to mechanical loads.

So, whether you're looking to buy, build, or restore the next best place to live, rest, or recover, keep in mind that a sustainable built environment is more than just low energy usage and "green" materials; it's also about how healthy a place it is to live.

Many countries developed standards and noise limits to be followed to protect the tenants from the exposure to unwanted sound. Refer to the local regulations and requirements while selecting the right acoustic solutions for your building.

Rubber Silent Floor



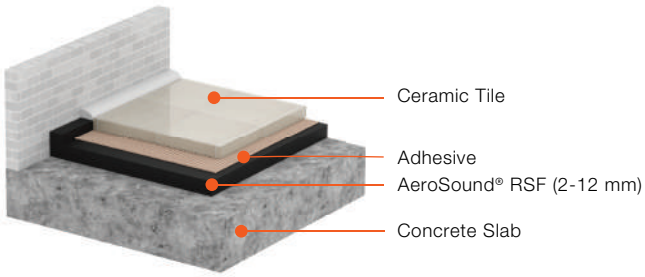
Rubber Underlay has been desiged to reduce impact sound in flooring systems.It is composed of elastomeric rubber mat with recycled rubber content bonded with PU. The rubber structure provides high acoustic, mechanical and thermal performance. Usual application is to separate concrete slab from the screed or final finish. Moreover, due to its high density and durability, it can also be installed directly under ceramic tiles with cement based glue. It can be used for heavy machines foundation to separate it from the structure of the building to avoid structural vibration transfer and noise transfer within the building. It can also act as a separation for the building structure elements like pre-casted stairs, elevator shafts from the staircase and stairs from structural slab. It is suitable for civil and industrial applications.

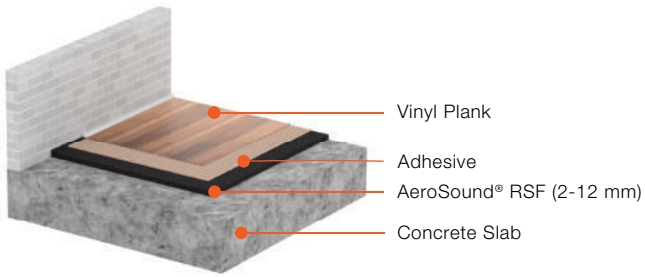
Thickness: 2 mm to 12 mm

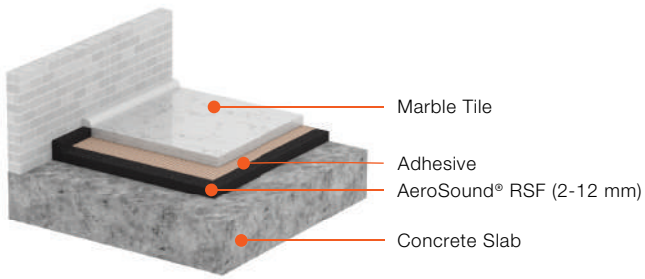
Density: 700-750 kg/m³ (±10%)

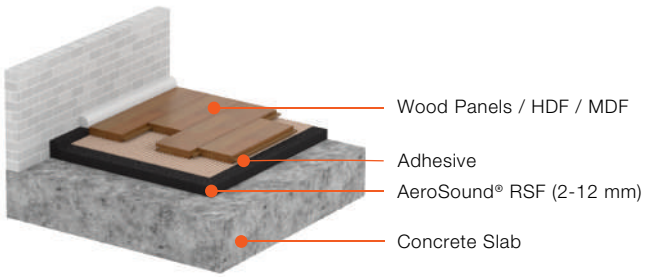
Max. Load: 3000 kg/m²

Without Screed Applications









Under Screed Applications