

SPECIALITY INNOTECH PVT LTD.

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An overview on vibration:

We are associated with Regupol BSW GmbH (<https://acoustics.regupol.com/>) for their vibration and impact sound isolation (VIS) products since last 7+ years. Using these quality products, we are able to provide the best solutions for almost all types of problems due to Vibrations or impact.

Vibrations or impact is responsible for secondary air born sound or structure born sound which indeed affects on the working environment or creates nuisance in the nearby areas. It is indeed complementary to acoustic solutions / insulations. We suggest visiting

<https://www.youtube.com/watch?v=Vg1q5hf1c90&app=desktop>

where we tried to explain how vibration isolation is complementary / necessary to achieve the perfect acoustic insulation.

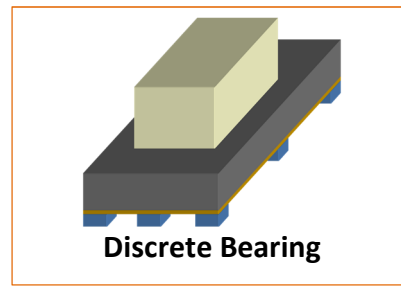
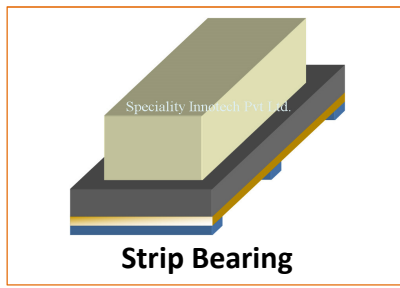
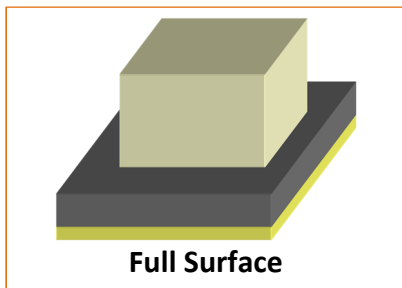
Therefore, it is recommended to carry out VIS treatment in initial phase of project itself as repairing / refurbishing may not be possible or may be too expensive once the things started working.

**VIS Applications:**

Vibration Isolation Solutions [VIS] reduces the transmission of Vibration and thereby secondary air born sound by decoupling vibrating objects from its surroundings. VIS finds a wide range of applications in...

- Architectural Acoustic: Floating floor isolation for Cinema Halls, Malls, Pubs, Gyms, Commercial Building, Sport Stadium, Studios, Parking Floor, Hospitals, AHUs, Chiller, cooler, pumps etc.
- Engineering: Generators, Motors, Testing Beds, Compressor, Pumps, Press Machine, CNC Machine etc.
- Power Generation: Boiler Feed Pumps, Fans, Turbines, Chiller etc.
- Cement and Mineral Processing: Crusher, Colling Tower etc.
- Iron and Steel: Cold Rolling mills, Generators, Hammer Mill etc.
- Marine: Pumps, Motor, engine assembly rotors etc
- Railway: Under rail track, Isolation of AC and Fans in Tunnels for Metro rails etc.

Types of Installation:

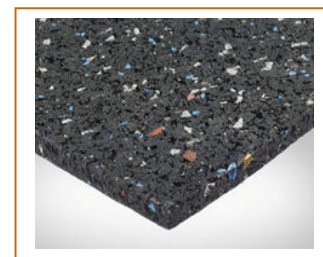
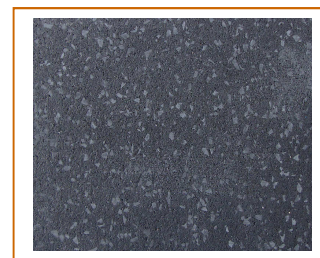


Materials used for Isolation:

There are typically two families of material available with BSW – Germany for vibration isolation.

Regupol® (Recycled Rubber PU):

Regupol® elastomers are composed of SBR and NBR rubber elements. For producing Regupol, rubber granulates, rubber fibers and rubber crumbs are combined with each another using various polyurethane binders and a special manufacturing process. There are several Regupol® elastomers available as per the requirements. They can be selected considering load ranges as per the requirement. The Regupol® elastomers offer a solution that is technically sufficient as well as the most economical for vibration- Isolations.



Regufoam® (Microcellular PU):

Regufoam® elastomers consist of mixed-cell polyurethane foam. It is precisely designed for different load ranges. It is available in various thicknesses from 12 mm, 25 mm, 37 mm and 50 mm which cover a wide spectrum of support frequencies up to 8 Hz. Regufoam® elastomers and their specific load ranges can be distinguished from one another using color codes.

Did you know?

Regupol has been used for Impact sound isolation purpose in many iconic buildings across the globe including Burj Khalifa, Dubai...