

UNISORB® Regufoam® Isolation Materials



Structure Borne Noise and Vibration

UNISORB Regufoam is applied as a vibration isolating structural element in the installation of both source and sensitive equipment. Regufoam installations provide a cost effective and simple approach to preventing the transmission of structure borne noise and vibration.

- **Natural Frequency Range of 7-15 Hz.**
- **Proven Long Life**
- **Simple Installation**
- **Unisorb Engineering and Field Support**



Regufoam is an engineered combination closed and open cell foam material that exhibits excellent vibration isolation characteristics including exceptional damping and superior durability in the industrial/commercial environment as proven in over two decades of successful applications.

UNISORB® Regufoam® Technical Specifications

Regufoam Type Designation	Load Limit (Static)	Nat. Freq. Range (Static)	Load Range (Dynamic)	Nat. Freq. Range (Dynamic)
150 plus Green	0.011 N/mm ²	25mm 14 - 29 Hz	0.011 - 0.016 N/mm ²	25mm 11.5 - 14 Hz
	1.60 PSI	50mm 9 - 20 Hz	1.60 - 2.32 PSI	50mm 8 - 9 Hz
For full information please see Unisorb Technical Bulletin No. LB-0111-2 Rev.1				
190 plus Yellow	0.018 N/mm ²	25mm 13 - 21 Hz	0.018 - 0.028 N/mm ²	25mm 11 - 13 Hz
	2.61 PSI	50mm 8.5 - 14 Hz	2.61 - 4.06 PSI	50mm 7.5 - 8.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0130-2				
220 plus Purple	0.028 N/mm ²	25mm 13 - 20 Hz	0.028 - 0.040 N/mm ²	25mm 10 - 13 Hz
	4.06 PSI	50mm 8.5 - 13 Hz	4.06 - 5.80 PSI	50mm 7 - 8.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0113-2 Rev.1				
270 plus Blue	0.042 N/mm ²	25mm 13 - 18 Hz	0.042 - 0.062 N/mm ²	25mm 10.5 - 13 Hz
	6.09 PSI	50mm 8.5 - 12 Hz	6.09 - 8.99 PSI	50mm 7.5 - 8.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0131-2				
300 plus Black	0.055 N/mm ²	25mm 13 - 16 Hz	0.055 - 0.08 N/mm ²	25mm 9.5 - 13 Hz
	7.98 PSI	50mm 9 - 11 Hz	7.98 - 11.6 PSI	50mm 7 - 9 Hz
For full information please see Unisorb Technical Bulletin No. LB-0103-2 Rev.1				
400 plus Grey	0.11 N/mm ²	25mm 12 - 19 Hz	0.11 - 0.16 N/mm ²	25mm 9 - 12 Hz
	16.0 PSI	50mm 8 - 13 Hz	16.0 - 23.2 PSI	50mm 7 - 8 Hz
For full information please see Unisorb Technical Bulletin No. LB-0121-2 Rev.1				
510 plus Beige	0.22 N/mm ²	25mm 11 - 17.5 Hz	0.22 - 0.32 N/mm ²	25mm 8.5 - 11 Hz
	31.9 PSI	50mm 8 - 12 Hz	31.9 - 46.4 PSI	50mm 6 - 8 Hz
For full information please see Unisorb Technical Bulletin No. LB-0122-2 Rev.1				
570 plus Rose	0.30 N/mm ²	25mm 14 - 17 Hz	0.30 - 0.42 N/mm ²	25mm 12 - 14 Hz
	43.5 PSI	50mm 9.5 - 11.5 Hz	43.5 - 60.9 PSI	50mm 8 - 9.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0132-2				
680 plus Turquoise	0.45 N/mm ²	25mm 13 - 16 Hz	0.45 - 0.62 N/mm ²	25mm 11 - 13 Hz
	65.3 PSI	50mm 8 - 10 Hz	65.3 - 89.9 PSI	50mm 7 - 8 Hz
For full information please see Unisorb Technical Bulletin No. LB-0110-2 Rev.1				
740 plus Red	0.60 N/mm ²	25mm 13 - 15 Hz	0.60 - 0.85 N/mm ²	25mm 11 - 13 Hz
	87.0 PSI	50mm 8.5 - 10 Hz	87.0 - 123 PSI	50mm 7 - 8.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0133-2				
810 plus Brown	0.85 N/mm ²	25mm 13 - 15 Hz	0.85 - 1.20 N/mm ²	25mm 11 - 13 Hz
	123 PSI	50mm 8 - 10 Hz	123 - 174 PSI	50mm 7.5 - 8 Hz
For full information please see Unisorb Technical Bulletin No. LB-0134-2				
990 plus Orange	2.50 N/mm ²	25mm 16 - 24 Hz	2.50 - 3.50 N/mm ²	25mm 15.5 - 16 Hz
	353 PSI	50mm 8.5 - 12.5 Hz	363 - 508 PSI	50mm 8 - 8.5 Hz
For full information please see Unisorb Technical Bulletin No. LB-0135-2				

UNISORB Regufoam is available in twelve basic color coded densities, and is easily fabricated on site to match any installation requirement. Regufoam is sold per square foot, and is generally specified by UNISORB Engineering. Standard roll size is 1.5M (59.06") x 5M (196.85"). For specific application data and referenced bulletins, please contact UNISORB Engineering at 517-764-6060.

UNISORB® Regufoam® Isolation Materials

For source machines like pumps, compressors, fans, and certain types of manufacturing equipment Regufoam is incorporated as a support member for a simple service pad of either concrete or steel which provides support and stability for the installed equipment. For the typical installation vibration isolation performances in the 90% plus range are easily achieved using standard construction techniques. In these applications the system natural frequencies are easily "tuned" to avoid any building or environmental resonances, thus eliminating problems before they occur.

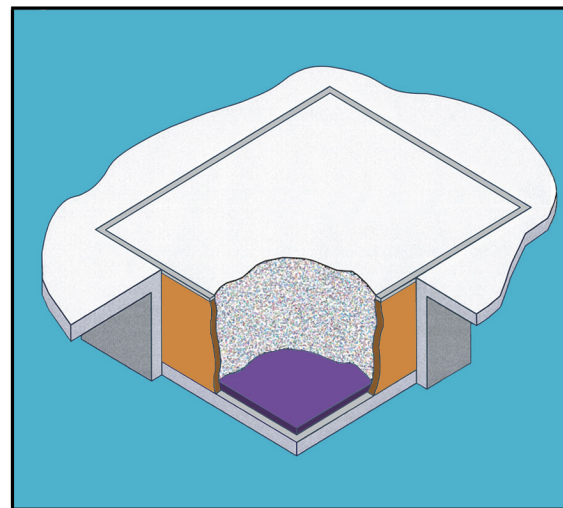


Pump Service Pad Isolation

Because of its unique design characteristics, a wide range of natural frequencies can be achieved by using Unisorb Regufoam isolation materials.

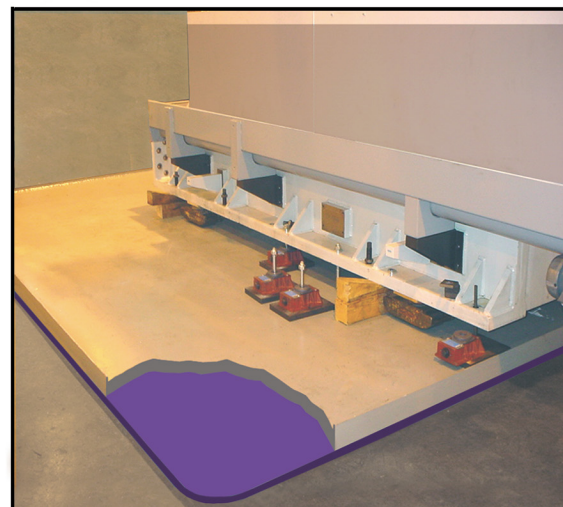


Air Handling Unit Service Pad Isolation



Inertia Block Isolation

For sensitive equipment like precision machine tools, coordinate measuring machines, and in the commercial environment computers and instrumentation/control equipment, the use of a larger inertia block mass may be employed to achieve very low system natural frequencies that yield isolation performances in the 98% plus ranges from normally occurring disturbances.



Equipment Mounting Plate Isolation

UNISORB offers full Professional Engineering assistance in the application of all products, and brings over 65 years experience in vibration isolation, anchoring, grouting, and precision alignment to your design team. Please contact our Engineering Department at 888-486-4767 for a no obligation consultation on your application today.

Machine Installation Expertise Since 1935

Since 1935 UNISORB has been serving the machinery installation needs of all segments of the manufacturing industry. As a part of our commitment to provide the best installation products and services, UNISORB maintains the only industry staff of engineers devoted exclusively to the design and implementation of complete machinery installation systems. From concept to final installation, UNISORB ensures optimum performance of mounted equipment.

Depend on UNISORB's years of experience for:

- Machinery Mounts
- Vibration Isolation Systems
- Anchoring/Alignment Systems
- Vibration Analysis Services
- Professional Engineering Services
- Isolated Foundation Design
- Advanced Grouting Technologies



INSTALLATION TECHNOLOGIES

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