STOP NOISE™ ACOUSTICAL SURFACES INC.
Sound Solutions for Over 40 Years
Soundproofing | Acoustics | Noise & Vibration Control

Applying Green Glue

Green Glue is the highest performance viscoelastic material available to the building and construction markets. It yields unprecedented damping factors and is remarkably tolerant to real-world installation conditions, carrying none of the burden of precision of many damping systems.

FLOORS AND WALLS:

- Dramatic reductions in impact and airborne noise high STCs (>>50, varies with construction) on a normal 2x4 wall with vastly superior low frequency performance relative to resilient walls of any type.
- Reduction or elimination of flanking noise (the damping converts vibrational energy to harmless levels of heat as it travels through damped walls, floors, ceilings, and frames)
- The easiest, lowest cost, and most effective upgrade to an existing wall available. Superior to any other technology at reduction of low-frequency impact noise (where underlayments and pads fail).
- Superior to expensive pre-fab sheet options when applied in real-world conditions.
- Superior damping, ease of application, tolerance to real-world variations, and drastically lower impact on critical frequency than any alternative.

LOADSPEAKER CABINETS AND HOME THEATER CONSTRUCTION:

- Cabinets: dramatically reduced magnitude of resonant peaks, tremendous decay rates, excellent dynamic stiffness, and 20* the damping factor of rigid adhesives
- May be utilized in stages and risers, offering greatly improved resistance to vibration,reduction of sound transmitted through stages

LOADSPEAKER CABINETS AND HOME THEATER CONSTRUCTION:

Active Content:	68% +/-5%
Working Time:	>30 minutes*
Cure Time:	7 days
Viscosity:	Light Paste
Odor:	Mild (Temporary)
VOC:	<2g/liter
Flash Point:	>200 deg F
Application Temp:	40-90 deg F
Damping Factor:	Typically 0.50+ with 2*5/8 fire code drywall (3X higher than any competitive product we are aware of)
Coverage:	Approx. 16 sq ft. per tube at full coverage

*Varies with ambient conditions (temp, humidity).

- Non Toxic (to both you and the environment)
- No mixing required.
- Superior performance relative to competitive products
- Faster coverage and lower cost = considerable reduced application cost
- Walls/floors with superb low frequency attenuation

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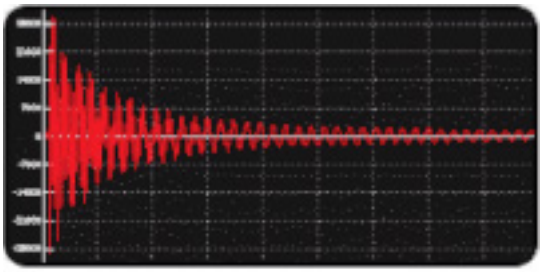
IMPULSE RESPONSE OF BONDED 5/8" DRYWALL PANELS

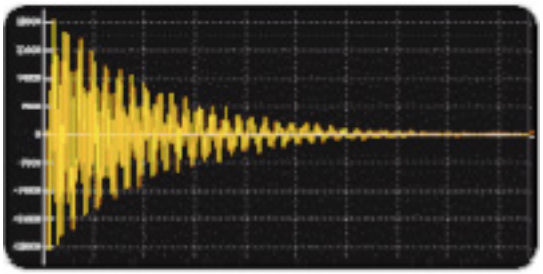
The very high rate of energy dissipation in Green Glue bonded materials destroys sound traveling through structures extremely quickly, and greatly reduces resonant problems that allow sound to pass easily through normal walls at many frequencies.

With the release of this material, the world finally has a damping material with high enough performance to reap the potential of that technology, and attain low-cost walls with high performance across the frequency spectrum, with low frequency performance vastly superior to resilient channel and clip walls.



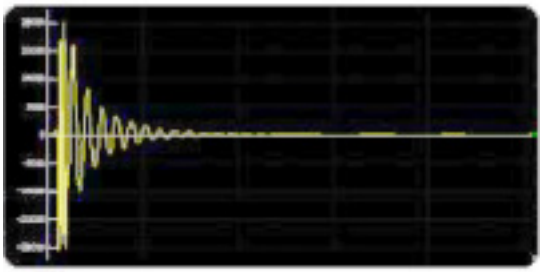
RAW DRYWALL

Damping Factor:	.006
Decay Rate @ 500 hz:	80 db/sec
Flanking Distance*:	201 ft.
Est. Low Frequency Impact Noise Reduction:	



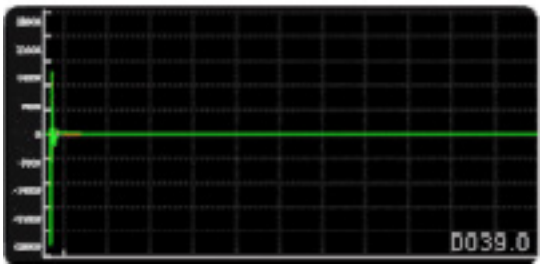
CONVENTIONAL DRYWALL ADHESIVE

Damping Factor:	0.026
Decay Rate @ 500 hz:	360 db/sec
Flanking Distance*:	57 ft.
Est. Low Frequency Impact Noise Reduction:	Impact Noise Reduction: 2-3 db (Impact noise applies to floors).



MORE EXPENSIVE SOUND ABSORBING ADHESIVE

Damping Factor:	0.11
Decay Rate @ 500 hz:	1500 db/sec
Flanking Distance*:	13 ft.
Est. Low Frequency Impact Noise Reduction:	Impact Noise Reduction: 8-9 db (Impact noise applies to floors).



GREEN GLUE DAMPED

Damping Factor:	0.50+
Decay Rate @ 500 hz:	682,500 db/sec
Flanking Distance*:	3.6 ft.
Est. Low Frequency Impact Noise Reduction:	I13-15 db 8-9 db (Impact noise applies to floors, damping factor of 0.4 is attainable in ordinary OSB floors).

*Flanking distance calculated from the rate of decay over distance for bending waves in the composite structures above. Reported is distance to 20db decay at 250hz. **Estimated reduction of low frequency impact noise for floors due to damping, OSB reference.

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