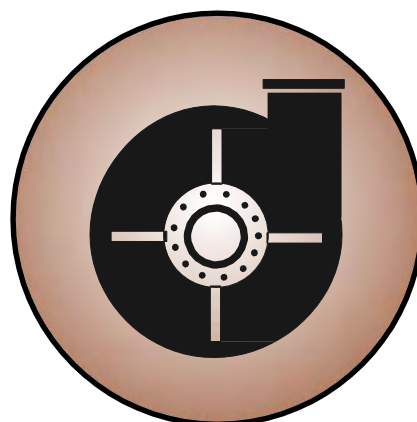
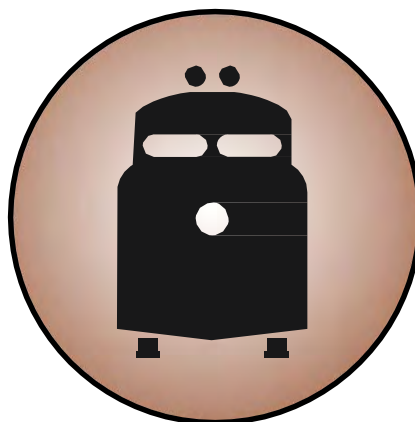


Vibration Damping and Foam Composites



OEM



ANC-DAMPC Damping Compound

All Noise Control® ANC-DAMPC is a water based damping compound for the treatment of vibrating metal, wood, glass, ceramic and most plastic surfaces. This material imparts vibration damping and a shift in the dominant frequency. The resulting structure borne noise reduction provides a means of improving the noise transmission loss in many applications.

All Noise Control ANC-DAMPC is especially recommended for new construction and equipment requiring superior flame and smoke resistant materials to meet local codes and ordinances. Ideal for OEM applications including bus, rail and marine.

Applications:

- * Ships and boats
- * Rapid transit cars
- * Fan and blower housings
- * Metal partitions and roof panels
- * Bins, chutes, hoppers, machine guards
- * Stadium seating



Features:

- * Low flame spread and smoke development rating per ASTM E-84-91A, ASTM E-162, ASTM E-662
- * Meets FMVSS 302
- * Non-hazardous, non-toxic
- * Improves fatigue life and safety factor of treated surfaces
- * Provides dielectric isolation and thermal insulation
- * Unaffected by hydrocarbons such as oils
- * Resists alkalis, acids, corrosive gases, grease, detergents and water
- * Easily troweled, brushed or sprayed on surfaces
- * Tough, durable, attractive coating in place of paint

Easily brushed, troweled or sprayed on surfaces, this highly effective damping compound may be painted to make suitable for outdoor as well as indoor usage.

Physical Properties:

| | | |
|-------------------------|--|---------------------------------|
| Rec. Max. Service Temp. | 325° F | |
| Flammability | ASTM-E-84 | Flame Spread 0 Smoke Index 0 |
| | ASTM-E-662 | Smoke Index 2 |
| | ASTM-E-162 | Flame Spread 1 |
| Flash point | ASTM-D-92 wet none | |
| Fire Point | ASTM-D-92 wet none | |
| Flexibility | Remains tenacious and flexible over a wide range of temperatures | |
| Storage Temp. | 40°F and above | |
| Shelf life | Approximately one year in a tightly sealed container | |
| Colors | Light Gray or Tan | |
| Odor | Totally odorless when dry | |

Typical Coverage:

| Dry Thickness | Spray | Square Ft./Gal. | |
|---------------|-------|-----------------|--------|
| | | Brush | Trowel |
| 1/16" | 50 | 35 | 25 |
| 1/8" | 40 | 25 | 20 |
| 3/16" | 30 | 20 | 15 |

Ordering Information:

| Available in... | Weight |
|-----------------|----------|
| 5 Gallon Pails | 60 lbs. |
| 55 Gallon Drums | 600 lbs. |

Soundamp E Vibration Damping Sheet

Soundamp E is a self-adhesive pad used for sound and vibration damping on metal panels. The adhesive side is smooth, giving complete contact with the underlying surface without air pockets or channels. Soundamp E is odorless, wear-resistant and impregnated to prevent the absorption of water. Both pad material and adhesive can withstand temperatures between -30° C and +120° C (-22° F to +248° F) and are highly resistant to aging.

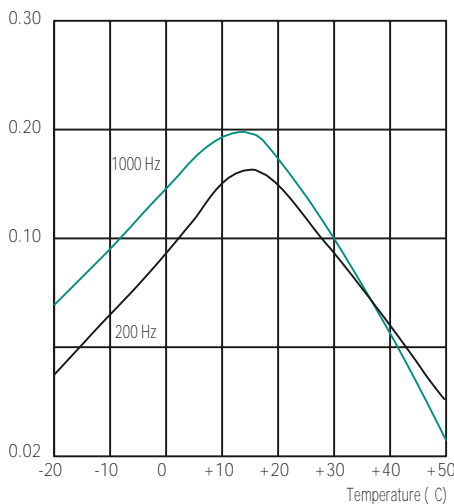
Specifications:

| | |
|-------------------------|--|
| Color: | Black |
| Thickness: | 0.080"oz. |
| Weight: | 6.2 /sq ft |
| Asphalt saturation: | 50% +/- 10% |
| Temperature range: | -30° to +120° C (-22° F to +248° F) |
| Chemical resistance: | Resistant to water and mineral oils |
| Adhesive peel strength: | 15n/cm 8.6 lbs/" on steel sheet at +20° C (86°F) |
| Vibration Damping: | GM Test Method 9232P |

| | | | |
|--------------------|--------------------|--------|-------|
| Specification min: | NC of 0.025 in | at 0c | 0.162 |
| | 0c to 20c interval | at 15c | 0.173 |
| | | at 30c | 0.103 |
| | | at 45c | 0.069 |
| | | at 60c | 0.049 |

| | |
|---------------|---|
| Flammability: | FMVSS 302 6.1 mm/min. UL94 HBF approved |
| Sheet size: | 54" x 40" die cut parts available |
| Storage life: | 6 months |

Loss Factor:



Loss factor as a function of temperature for Soundamp E applied to 1 mm sheet at frequencies of 200 Hz and 1000 Hz.

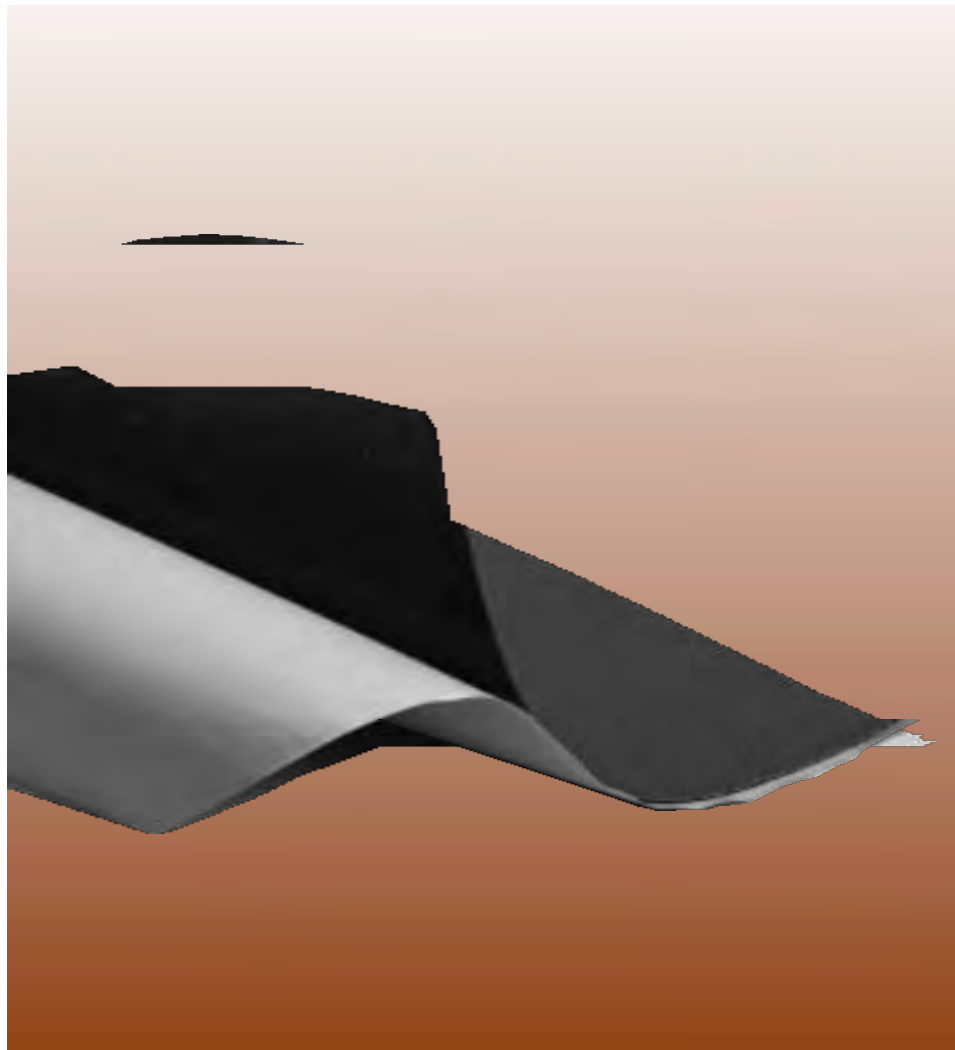
Soundamp E should be cut to the desired size and shape before the backing paper is removed. It may be cut with scissors, knife, or die. Remove dust, grease, moisture and other foreign matter from the application surface. Peel off the backing paper. The simplest application technique is to bend the pad slightly and attach it along its shortest edge. The pad is then pressed firmly into place, preferably with a roller for larger pieces. This reduces the risk of leaving air pockets, which reduce the sound damping capacity. The temperature of the pad and application surface should not be below room temperature during fitting.

Applications:

- * Buses and railroad cars
- * Ships and boats
- * Generator enclosures
- * Air Compressors
- * Off Highway Equipment
- * Bins, chutes, hoppers, machine guards
- * Relay cabinets
- * Doors, bins, panels

Features:

- * Non-hazardous, non-toxic
- * Meets FMVSS 302 and UL94 HBF
- * Improves fatigue life and safety factor of treated surfaces
- * Resistant to water and mineral oils
- * Temperature range -22° F to +248° F
- * High acoustic loss factor



Polyurethane Foam and Foam Combinations

All Noise Control acoustical foam composites combine the highly effective sound

Absorptive properties of All Noise Control acoustical foam with the significant transmission loss properties of All Noise Control flexible barriers. The result is a line of noise control products that combat difficult problems one material alone cannot handle.

Polyurethane foams of various thickness are bonded to any of the All Noise Control barriers in either the barrier backed or barrier septum configurations.

Depending on the noise control application, any of the All Noise Control foam products or barriers may be purchased individually. For harsh environmental conditions, all of the foam products and barrier combinations may be purchased with thin film facings for protection. Pressure sensitive adhesives are recommended only for small die cut pieces. Large sections should be applied with mechanical fasteners or contact adhesive.

Typical Random Incidence Absorption Coefficients:

| Thickness (inches) | Frequency - Cycles per Second (Hz) | | | | | | NRC |
|-----------------------|------------------------------------|------|------|------|------|------|------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| 1/4 | 0.07 | 0.10 | 0.20 | 0.30 | 0.65 | 1.00 | 0.31 |
| 1/2 | 0.09 | 0.12 | 0.23 | 0.65 | 0.87 | 0.96 | 0.47 |
| 1 | 0.23 | 0.41 | 0.59 | 0.98 | 0.82 | 0.93 | 0.70 |
| 2 | 0.50 | 0.75 | 0.97 | 0.93 | 0.95 | 0.90 | 0.90 |
| 4 | 0.69 | 0.80 | 0.91 | 0.92 | 0.95 | 0.98 | 0.90 |

Explanation: The data is for conventional 2 lb./ft³ polyurethane foam. We have additional types of polyurethanes available which will improve sound absorption at specific frequencies. Let our engineers discuss your application with you. If another type of foam will improve the product, we will make it available to you.

Flexible Barriers:

| Barriers | Noise Transmission Loss (dB) per Octave Band (Hz) | | | | | | STC |
|-------------|---|-----|-----|------|------|------|-----|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| 1lb. PSF | 13 | 17 | 22 | 26 | 32 | 37 | 26 |
| 3/4 lb. PSF | 11 | 16 | 20 | 25 | 30 | 34 | 23 |
| 1/2 lb. PSF | 8 | 13 | 17 | 22 | 27 | 31 | 20 |

Distributed By

Applications:

- * Truck cab floors and headliners
- * Compressor and generator engine housings
- * Recreational vehicles
- * Sheet metal enclosures

Features:

- * Combines noise barrier, absorber, damper
- * Non-shrinking, noncorrosive
- * Easy to cut, fit and install
- * Die cutting to size available
- * Film-faced styles to resist oils, greases, dust and moisture
- * Meets UL-94-HF-1, FMVSS 302 flammability ratings

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