



## HUSHMAT ULTRA

### FEATURES & BENEFITS:

- HushMat Ultra effectively treats low frequency, resonant noise from 0 to 1,000 Hz
- Withstands ambient temperatures from -30 degrees up to +550 degrees Fahrenheit
- Requires no surface cleaning / preparation or heat guns to install
- No alcohol or acetone wash needed
- No installation tools required
- Trims with standard razor knife or household scissors
- Self Adhesive peel and stick – no secondary glue - adhesion guaranteed
- Available in Silver or Black Foil
- Meets or exceeds damping specs GMO149M - General Motors, WSB-M5G58-A1 - Ford and MS-CD 629 Type C - Chrysler

Easier Installation + Better performance = **GREAT VALUE!**

### PRODUCT DETAILS:

**HUSHMAT ULTRA** is a pressure-sensitive, constrained-layer damper, which has excellent adhesion to many difficult to bond substrates such as oily cold rolled steel, automotive E-coat, primers and finishes, and many plastics including polypropylene. The aluminum foil constraining layer and specially formulated viscoelastic polymer layer combine to give effective vibration damping over a wide temperature range. Ultra is provided in rectangular or square sheets and can be hand-cut for special configurations.

**HUSHMAT ULTRA** is temperature resistant and will maintain adhesion through all automotive bake cycles including 288°C (550 degrees F) over-bake conditions. This allows its application at any stage of the production cycle. It can be applied to both pre-painted and top-coated metal surfaces. It is compatible with automotive coatings and will not contaminate spray operations. **HUSHMAT ULTRA** superior adhesion characteristics provide excellent corrosion resistance.

The superior adhesive properties of **HUSHMAT ULTRA** allow it to be used in horizontal, vertical or inverted applications. It has good conformability and can be applied on complex shapes.

**HUSHMAT ULTRA** is approved for many automotive specifications. Contact your Hushmat representative for details, and for design and custom application assistance.

### TYPICAL PROPERTIES:

<b>COLOR:</b>	Polymer - Black Backing – Aluminum Silver or Black
<b>SPECIFIC GRAVITY:</b>	1.47 (approx. 0.47 pounds per square foot)
<b>THICKNESS:</b>	1.5mm
<b>HARDNESS:</b>	6.5 - 9.0mm. ASTM D-5
<b>R VALUE:</b>	7
<b>SHELF LIFE:</b>	At least 6 months when stored at 40°C or less
<b>TEMPERATURE</b>	<b>HUSHMAT ULTRA</b> will withstand a bake of 1 hour at 240°C with no

**RESISTANCE:** deformation, sag, or flow when baked in horizontal, vertical or inverted positions.

**COLD FLEXIBILITY:** Can be bent around 25mm. mandrel at -30°C with no cracking or loss of adhesion.

**FLAMMABILITY:** Tested per FMVSS 302, **HUSHMAT ULTRA** is self-extinguishing and meets all aspects of the standard.

**SAFETY:** **HUSHMAT ULTRA** is not considered a hazardous material. Care should be used in handling to avoid cuts from the foil. Gloves are recommended. The Material Safety Data Sheet is available upon request and should be read and understood before using this product.

**PEEL STRENGTH:** Tested in 90° peel at a crosshead speed of 300mm per minute on a 25mm wide test specimen. Average load in Newtons is reported.

PEEL STRENGTH (N per 25mm width)			
SUBSTRATE	OILY COLD ROLLED STEEL *	OILY GALVANIZED STEEL *	E-COAT (ED-11)**
After 2 Hours	92	92	77
Heat Aged 2 Weeks at 70 Celsius	91	91	84
Salt Spray 2 Weeks	83	56	72
Humidity 2 Weeks at 100% and 38 Celsius	89	84	88
Environmental Cycle 5 Cycles of the following 17 Hours at -30 Celsius 72 Hours at 70 Celsius 24 Hours in Salt Spray 7 Hours at -30 Celsius 17 Hours in Salt Spray 7 Hours at 70 Celsius 24 Hours in Salt Spray	89	91	78
* Baked per automotive paint bake schedule - e-coat.			
** Unbaked			