Liquid applied sound damping
with ACOUSTICRYL™ Acrylic Resins
Silence in motion

ACOUSTICRYL™ Acrylic Resins for liquid applied sound damping (LASD) offer easy spray alternatives to preshaped asphaltic insulating pads and performance advantages over other sprayable technologies.

- Passenger cars
- Marine/rail
- RV/van/bus
- Agriculture and construction equipment
- Washers/dryers
- Dishwashers
- Refrigerators
- HVAC units
- Air conditioners
- Floors/roofs
- HVAC ducts
- Elevator shafts
- Service conduits
- Boiler rooms

Customized solutions

Through changes in glass transition (Tg) and other emulsion construction variables, ACOUSTICRYL™ Acrylic Resins can be tailored to the damping performance needs of individual OEM specifications. A dedicated technical service team is available for support.

Sound damping systems based on ACOUSTICRYL™ Acrylic Resins offer key advantages over traditional sound damping systems.

<table>
<thead>
<tr>
<th>Acrylic vs. liquid rubber</th>
<th>Acrylic vs. epoxy</th>
<th>Acrylic vs. bithumen pads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better damping options</td>
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<tr>
<td>Lower weight options</td>
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<tr>
<td>Lower odor / lower VOC</td>
<td>Non-reactive on the line</td>
<td>Automated streamline process</td>
</tr>
</tbody>
</table>
**Loss factor performance**

Base beam: 1 mm X 10 mm X 215 mm (240 mm in total length)
Dry coating density: 3.5 Kg/m²
Curing conditions: 30 min (25 °C), 30 min (150 °C), Frequency Interpolation: 200 Hz

The **ACOUSTICRYL™ Acrylic Resins advantage**
ACOUSTICRYL™ Liquid Applied Sound Damping Resins offer a combination of composition, process and performance advantages.

### Composition
- Water-borne

### Process
- Single step and streamlined process
- Spray application
- Safer (less handling)

### Performance
- Higher damping performance
- Lower application weight
- Customized sound damping profile

#### Features and benefits
- Advanced water-borne technology/low VOC emissions
- Good health and safety profile for workers
- Up to 35% lower weight compared to alternative technology
- Cost reduction due to one step spray process

- Excellent noise reduction
- Smart noise management
- Customizable solutions
- Global supply capability

**Upgrade with AVANSE™ Technology**
Next-generation ACOUSTICRYL™ Acrylic Resins feature a novel mechanism that activates the inorganic phase and offers a notable boost to sound-damping properties.

Compared to standard latexes, ACOUSTICRYL™ with AVANSE™ Technology offers improved damping performance at equivalent coating weight or equal performance with a notable reduction in coating weight, less latex and more filler, without a significant drop in performance, and formulation latitude allowing for higher levels of platy fillers, which are better for damping.
## Product details

<table>
<thead>
<tr>
<th>Acrylic resins with AVANSE™ Technology</th>
<th>Solids (%)</th>
<th>pH</th>
<th>Viscosity (cP)</th>
<th>Tg (°C)</th>
<th>Peak damping temperature (°C)</th>
<th>Sound damping curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACOUSTICRYL™ AV-1120</td>
<td>55</td>
<td>8.6-9.3</td>
<td>50-500</td>
<td>-14</td>
<td>5 - 15</td>
<td></td>
</tr>
<tr>
<td>ACOUSTICRYL™ AV-1220</td>
<td>50</td>
<td>8.6-9.3</td>
<td>50-250</td>
<td>-3</td>
<td>20 - 28</td>
<td></td>
</tr>
<tr>
<td>ACOUSTICRYL™ AV-1331</td>
<td>55</td>
<td>8.6-9.3</td>
<td>10-1500</td>
<td>9</td>
<td>32 - 43</td>
<td></td>
</tr>
<tr>
<td>ACOUSTICRYL™ AV-1420</td>
<td>55</td>
<td>8.6-9.3</td>
<td>10-1500</td>
<td>13</td>
<td>37 - 46</td>
<td></td>
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<tr>
<td>ACOUSTICRYL™ AV-2245</td>
<td>55</td>
<td>8.6-9.3</td>
<td>50-1000</td>
<td>-4</td>
<td>20 - 42</td>
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<tr>
<td>ACOUSTICRYL™ AV-2400</td>
<td>53</td>
<td>8.6-9.3</td>
<td>50-500</td>
<td>15</td>
<td>38 - 56</td>
<td></td>
</tr>
</tbody>
</table>

These are typical properties not to be construed as specifications. Tested formulations available upon demand.

For more information please consult our web site dow.com

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