**Product Information**

**Dow Corning® 734 Flowable Adhesive Sealant**

**FEATURES**
- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air.
- Acetoxy cure system
- Flowable and self-leveling
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion to many substrates
- Stable and flexible from -65°C (-85°F) to +180°C (+356°F).
- Excellent dielectric properties
- Complies with MIL-A-46106

**APPLICATIONS**
- General industrial sealing and bonding applications requiring a flowable product.
- Particularly suitable for sealing assemblies with fine joints as well as cable entries and connectors, to ensure that they remain watertight.
- Due to its good adhesion to other silicone rubbers, ideally suited for making field repairs on existing equipment where a part of an existing silicone encapsulant has been removed.

**TYPICAL PROPERTIES**
Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<table>
<thead>
<tr>
<th>CTM¹</th>
<th>ASTM²</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>0176</td>
<td></td>
<td>As supplied</td>
<td>Flowable liquid</td>
<td>Clear, white</td>
</tr>
<tr>
<td>0050</td>
<td>D1084</td>
<td>Viscosity at 25°C (77°F)</td>
<td>mPa.s</td>
<td>45,000</td>
</tr>
<tr>
<td>0098</td>
<td></td>
<td>Skin-over time</td>
<td>minutes</td>
<td>7</td>
</tr>
<tr>
<td>0095</td>
<td></td>
<td>Tack-free time</td>
<td>minutes</td>
<td>13</td>
</tr>
<tr>
<td>0208</td>
<td></td>
<td>Non-volatile content after 24 hours at 70°C (158°F)</td>
<td>%</td>
<td>95</td>
</tr>
</tbody>
</table>

**Mechanical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity**

| 0022 | D792  | Specific gravity                                  |              | 1.03     |
| 0099 | D2240 | Durometer hardness, Shore A                       |              | 27       |
| 0137A| D412  | Tensile strength                                   | MPa          | 1.5      |
| 0137A| D412  | Elongation at break                                | %            | 315      |
| 0159A| D624  | Tear strength – die B                              | kN/m         | 3.0      |
| 0057 |       | Brittle point                                      | °C           | -65      |
|      |       |                                                    | °F           | -85      |

**Electrical properties, after 7 days cure in air at 25°C (77°F) and 50% relative humidity**

| 0114 | D149  | Dielectric strength                                | kV/mm        | 17       |
| 0249 | D257  | Volume resistivity                                 | Ohm.cm       | 1x10¹³   |
| 0112 | D150  | Permittivity at 100Hz                               |              | 2.7      |
| 0112 | D150  | Permittivity at 100kHz                              |              | 2.7      |
| 0112 | D150  | Dissipation factor at 100Hz                         |              | 0.00034  |
| 0112 | D150  | Dissipation factor at 100kHz                         |              | 0.00019  |

¹ CTM: Corporate Test Method, copies of CTMs are available on request.
HOW TO USE
Substrate preparation
All surfaces must be clean and dry. Degrease and wash off any Contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene, polypropylene and related materials.

For maximum adhesion, the use of Dow Corning® 1200 OS Primer is recommended. After solvent cleaning, a thin coat of Dow Corning 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

HOW TO APPLY
Apply Dow Corning® 734 Flowable Adhesive Sealant to the prepared surfaces in a uniform thickness of 0.25 to 0.75mm. If the adhesive is to be used to bond two surfaces, apply it only to one surface and allow it to establish a uniform contact before putting the other surface in place. When placing the second, use enough pressure to spread the adhesive and displace any trapped air.

On exposure to moisture, the freshly applied material will "skin-over" in about 7 minutes at room temperature and 50% relative humidity. Any tooling should be completed before this skin forms.

Cure time
After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) Dow Corning 734 Flowable Adhesive Sealant will cure to a depth of about 3mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at lower humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

Compatibility
Dow Corning 734 Flowable Adhesive Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

HANDLING PRECAUTIONS
Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning Web site at dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

STORAGE
Product should be stored at or below 32°C (90°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER® Web site in the Product Detail page under Sales Specification.

As Dow Corning 734 Flowable Adhesive Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

LIMITATIONS
This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION
To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area. For further information, please see our Web site, dowcorning.com or consult your local Dow Corning representative.

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