Efficacy. Compliance.
Formulate topical barrier film and adhesive removal products for ostomy patients

Ostomy care products that are gentle, effective, pleasant-feeling and easy to use encourage patients to take better care of the skin around their stoma. When properly treated, the skin stays healthier and the patient experiences less discomfort, making life with an ostomy a more positive experience.

Silicone technologies, formulation expertise and regulatory support from Dow Corning can help you accelerate the development and approval of ostomy care topical solutions that meet patients’ needs for comfort, convenience and protection.

Begin with ready-to-use silicone blends from Dow Corning

Dow Corning has used its expertise in formulating silicone-based materials for topical applications to bring you a series of pre-blended topical silicone solutions suitable for use in ostomy-care products:

- **Dow Corning® MG-2107 Silicone Blend** and **Dow Corning® MG-2110 Silicone Blend** for skin barrier products
- **Dow Corning® MG-2001 Silicone Blend** for adhesive removal products

These proven, ready-to-use blends can help you reduce formulating steps and mitigate volatile-handling challenges encountered in manufacturing. Additionally, their quick-drying, non-tacky, non-occlusive nature combined with their pleasurable silicone feel can help you create products that increase patient comfort and compliance.
Silicone blends for skin barrier products

**INCI Name:** Disiloxane (and) Trisiloxane (and) Trimethylsiloxyasilicate  *(Note: INCI Name is the same for both products.)*

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dow Corning® MG-2107 Silicone Blend</strong></td>
<td>Hexamethyldisiloxane 73</td>
<td>Quick drying time for easy application</td>
</tr>
<tr>
<td></td>
<td>Octamethyltrisiloxane 20</td>
<td>Provide a film on the skin with low-tack, substantive and non-occlusive properties</td>
</tr>
<tr>
<td></td>
<td>Trimethylated silica 7</td>
<td>Good wash-off resistance</td>
</tr>
<tr>
<td><strong>Dow Corning® MG-2110 Silicone Blend</strong></td>
<td>Hexamethyldisiloxane 70</td>
<td>Low odor compared to organic solvent</td>
</tr>
<tr>
<td></td>
<td>Octamethyltrisiloxane 20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trimethylated silica 10</td>
<td></td>
</tr>
</tbody>
</table>

**Performance testing summary**

The performance of *Dow Corning* MG-2107 Silicone Blend and *Dow Corning* MG-2110 Silicone Blend was compared to the performance of a commercial benchmark product.¹

**Film substantivity** – The *Dow Corning®* silicone blends and the benchmark all exhibited good substantivity over time (Figure 1) and good wash resistance (Figure 2).

**Tackiness** – *Dow Corning* MG-2107 Silicone Blend exhibited lower tackiness than the benchmark (Figure 3).

**Drying time** – Both of the *Dow Corning* silicone blends exhibited comparable drying time to the benchmark (Figure 4).

**Perceived film presence** – Each of the *Dow Corning* silicone blends exhibited a higher film presence than the benchmark.

**Non-occlusivity/breathability** – The *Dow Corning* silicone blends and the benchmark demonstrated non-occlusive properties, which allow the skin to breathe.

**Illustrative test results**

1Benchmark ingredients: Hexamethyldisiloxane, isooctane, acrylate terpolymer, polyphenylmethyldisiloxane.
**Silicone blend for adhesive removal products**

**INCI Name:** Disiloxane (and) Trisiloxane (and) Dimethicone

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dow Corning® MG-2001 Silicone Blend</td>
<td>Ingredients</td>
<td>% w/w</td>
</tr>
<tr>
<td>Hexamethyldisiloxane</td>
<td>94</td>
<td>▶ Offers excellent cleaning ability coupled with quick drying time and skin protection&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Octamethyltrisiloxane</td>
<td>5</td>
<td>▶ Non-occlusive</td>
</tr>
<tr>
<td>Dimethicone NF</td>
<td>1</td>
<td>▶ Non-stinging with a silky smooth after-feel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▶ Low odor compared to organic solvent</td>
</tr>
</tbody>
</table>

1<sup>Dimethicone NF meets the requirements as skin protectant for over-the-counter human drug products (FDA monograph 21 CFR, Part 347.1).</sup>

**Performance testing summary**

The performance of Dow Corning MG-2001 Silicone Blend was compared to the performance of a European commercial benchmark product<sup>2</sup> and a U.S. commercial benchmark product<sup>3</sup>.

**Cleaning efficiency – Dow Corning MG-2001 Silicone Blend** performed better than the European benchmark (Figure 5).

**Drying time – Dow Corning MG-2001 Silicone Blend** dried significantly faster than either the European benchmark or the U.S. benchmark (Figure 6).

**Sensory profile –** Compared to the European benchmark and the U.S. benchmark, Dow Corning MG-2001 Silicone Blend exhibited less film residue, less greasiness and less tackiness. (See European benchmark comparison, Figure 7.)

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2European benchmark ingredients: Isododecane, paraffinum liquidum, hexylidodecanol.

3U.S. benchmark ingredients: C10-11 isoparaffin, isopropyl alcohol, dipropylene glycol methyl ether, aloe extract, fragrance.
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For additional information
For product data sheets and product samples, contact your Dow Corning technical representative.

Contact Dow Corning
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Make Dow Corning your innovation leader
With more than 60 years of healthcare market experience in the design of silicone-based systems, you can rely on Dow Corning for:

- A reliable global supply of reputable, cost-effective silicone-based topical ingredients manufactured specifically for healthcare applications
- Proven aesthetics and functional film characteristics, such as breathability and substantivity
- Test data to support specific claims
- Formulation, regulatory and product development expertise and support
- A regulatory information package aligned with the requirements of the consumer healthcare market