**FEATURES**
- Ready to use non-ionic emulsion
- Provides gloss and water repellency
- Good wetting and slip characteristics
- General purpose release agent
- Does not contain alkylphenol-ethoxylates (APEO)
- Good emulsion stability after extended periods at 50°C (4 weeks)
- Good dilution stability. Dilutions up to 130 parts water to 1 part emulsion are possible so that optimum concentration of silicone may be used with no excess waste.
- Good freeze-thaw stability (5 cycles)

**Aqueous emulsion of polydimethylsiloxane**

**APPLICATIONS**
*Dow Corning®* IE 39 Emulsion has been specially formulated for use as a polish ingredient and release agent/lubricant either “as received” or “pre-diluted” with water. Its formulations, stability and efficiency can lead to a variety of applications. These include:

- As ingredient in polishes, *Dow Corning®* IE 39 Emulsion is used to provide good gloss with minimum smear in both car and furniture polish formulations
- Mould release of:
  - Rubber or plastic parts (stoppers, screw tops, bungs, etc.)
- Lubrication of:
  - Extruded rubber parts; conveyor belts
- Textile lubricant:
  - Yarn manufacture
  - Sewing thread lubrication
  - Hosiery manufacture
  - Sewing needle lubrication
  - Glass fabric exhaust filters

**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>Property</th>
<th>CTM*</th>
<th>Unit</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>0176</td>
<td></td>
<td>White liquid</td>
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<tr>
<td>Non volatile content</td>
<td>0862</td>
<td>%w/w</td>
<td>35.50 – 38.0</td>
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<tr>
<td>Specific Gravity at 25°C</td>
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<td>1.0</td>
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<tr>
<td>pH</td>
<td>0007</td>
<td></td>
<td>6.5 – 8.5</td>
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<tr>
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<td>Nonionic</td>
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<tr>
<td>Diluent</td>
<td></td>
<td></td>
<td>Water</td>
</tr>
</tbody>
</table>

CTM*: Corporate Test Method, copies of CTM’s are available upon request.

**DESCRIPTION**

*Dow Corning®* IE 39 Emulsion is a 35% actives non-ionic emulsion formulated with a polydimethylsiloxane. Because its nonionic nature, it can be used in a variety of systems, such as nonionic, anionic, cationic surfactant or polymer systems without forming a complex. Extensive testing has shown that *Dow Corning®* IE 39 Emulsion performs comparably to its predecessor.

**HOW TO USE**

*Dow Corning® IE 39* Emulsion can be used as received or in a diluted form. For use as a polish ingredient, please refer to starting formulations at www.dowcorning.com/autocare

For use as release/lubricant *Dow Corning® IE 39* Emulsion may be applied as received in a diluted form by the conventional methods of spraying, dipping, wiping or brushing. Low harness water should be used for dilution. A typical dilution is
**Dow Corning® IE 39 Emulsion** (1 part w/w) to water (20 parts w/w) but the user should determine the best concentration and application method on a small scale before production.

For use as fabric finish agent *Dow Corning® IE 39 Emulsion* can be applied to fabric by padding. The amount of emulsion required will depend on the fabric constructions and type on the fabric used (natural, synthetic). Generally, between 10g/1 and 40g/1 bath concentration is recommended.

**Procedure for padding**

1. Scour goods in a non-ionic detergent and rinse thoroughly. Follow with an acid rinse using 2g/1 of 80% acetic acid for 5 minutes. This will neutralize any alkali residues from previous processes that may cause pad bath instability and lead to oil spots on fabrics or gel on the rollers.

2. If crease resist resins or fillers are used, dilute in the mixing tank in accordance with the manufacturers' instructions. If hot, cool to below 30°C before adding the silicone emulsion.

3. Pre-dilute the required amount of *Dow Corning® IE 39 Emulsion* with an approximately equal weight of water and add to the mixing tank.

4. If crease resist resin catalyst is used, pre-dilute with an equal weight of water and add to the mixing tank.

5. Top up to final volume with cold water.

**Precautions during use**

- Start with clean mixing tank, delivery lines, pad box and rolls.

- Dilute the emulsion with cold water only.

- Do not use a high shear stirrer when making finishing liquor.

**ATTENTION:** Sample formulations are provided for illustrative purposes only. *Dow Corning* does not warrant their merchantability, fitness for use, performance, efficacy, safety or freedom from patent infringement.

They are not commercial formulations and have not been subjected to extensive testing. It is your responsibility to thoroughly test any formulation before use.

**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 website at [www.dowcorning.com](http://www.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.

**USABLE LIFE AND STORAGE**

*Dow Corning® IE 39 Emulsion* will freeze so adequate precautions should be taken. In case of freezing, thaw at room temperature before use to reconstitute. To prevent freezing, store above 5°C.

When stored at or below 35°C in the original unopened containers, this product has a usable life of 18 months from the date of production.

**PACKAGING**

This product is available in 20, 200 and 1000 kg (44, 441 and 2205-lb) containers, net weight. It could be available in tankers.

**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 website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local *Dow Corning* representative.
LIMITED WARRANTY
INFORMATION – PLEASE READ CAREFULLY

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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