



## Product Information

### GP-421 SILICONE EMULSION

Genesee Polymers' *GP-421 SILICONE EMULSION* is an emulsion of a reactive, further curable silicone resin in water carrier. *GP-421* may be applied to porous substrates such as wood, leather, textiles or masonry to impart water repellency properties - blocking penetration of liquid water, while still allowing moisture in the vapor phase to pass through.

*GP-421 SILICONE EMULSION* may be used as a component in paints or coatings intended primarily for exterior applications, where the silicone resin component will improve weathering resistance and allow moisture transfer.

Heating substrates treated with *GP-421* will accelerate cure of the resin component of *GP-421*, with the following schedule determined for aluminum substrates:

150° C (302° F) 8 Hours

175° C (347° F) 3 Hours

200° C (392° F) 1 Hour

Cure times at various temperatures will be reduced on substrates such as masonry, because of the alkaline nature of masonry, which helps catalyze the resin curing reaction.

**INNOVATIVE POLYMER TECHNOLOGY**

| <b>TYPICAL PROPERTIES</b>                                  |                            |
|--|----------------------------|
| <b>Appearance</b>  | <b>White Opaque Liquid</b> |
| <b>Weight/Gallon</b>                                       | <b>8.0 lbs.</b>            |
| <b>Flash Point (P.M.C.C.)</b>                              | <b>200° F</b>              |
| <b>Specific Gravity</b>                                    | <b>1.02</b>                |
| <b>Solids Content</b>                                      | <b>42%</b>                 |
| <b>Diluent</b>   | <b>Water</b>               |
| <b>Solvent Content<br/>(Octamethylcyclotetra-Siloxane)</b> | <b>15% (By Weight)</b>     |
| <b>pH</b>  | <b>6</b>                   |
| <b>Silicone Resin Content</b>                              | <b>36%</b>                 |

| <b>APPLICATIONS</b>  |
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| <p><b>Latex Paint Additive (Improve Weathering)</b></p> <p><b>Water Repellent Formulations</b></p> <p><b>Binder in High Temperature Paints</b></p> <p><b>Protective Coatings</b></p> <p><b>Aqueous Adhesive Formulations</b></p> |

| <b>SPECIAL FEATURES</b>  |
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| <p><b>Stable Emulsion Concentrate</b></p> <p><b>Good Water Repellency</b></p> <p><b>Dilutable with Water</b></p> |



## PROCESSING AND SAFETY GUIDELINES

**GP-421 SILICONE EMULSION** should be mixed prior to use to insure homogeneity. Refer to Safety Data Sheet for safety requirements.

## PACKAGING/HANDLING/STORAGE

**GP-421** is supplied in 5-gallon (40 lbs.) pails, 55-gallon (440 lbs.) drums and 330-gallon (2640 lbs.) totes.

Keep container tightly sealed. Do not freeze. Do not store above 100° F.



[www.gpcsilicones.com](http://www.gpcsilicones.com)

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