

Why should I use silicones in polish applications when there are less expensive organic liquid and wax alternatives?

Silicones can often be used in lower amounts than organic materials to achieve similar or better performance. Some silicones also provide more durability, although the effect is not permanent. Thus, performance can be retained through one or two rain showers, a second car wash, etc. prior to reapplication.

How do I determine how much silicone to use for a polish application?

Starting formularies are available for all applications listed in site. From the formulary you can further customize the formulation to meet your technical or economic requirements.

Where do I get the various components that make up a polish formulary?

WACKER SILICONES provides global Internet address information for all the auxiliary materials used in our suggested starting formularies. These addresses are checked annually to keep up to date on various company mergers, acquisitions, etc. A second benefit of this address check is to verify that auxiliaries suggested remain available.

Can dimethyl silicone fluids be mixed?

Yes, silicone fluids can be mixed to form an intermediate viscosity. However, there will be two peaks in the molecular weight distribution.

Can dimethyl silicone fluids be diluted with water?

No, silicone fluids are immiscible with water. However, silicone fluids can be emulsified with a suitable emulsifier which will allow for their dilution in water.

Can dimethyl silicone emulsions be diluted with water?

Yes, emulsions can be diluted with water, but may need additional biocide/fungicide as well as thickeners.

What advantages are gained by using a dimethyl silicone fluid in the form of an emulsion?

In addition to the ability to disperse an emulsified fluid in water, emulsions are much lower in viscosity than many of our silicone fluids which increases their flowability for use in dispensing equipment.

Furthermore, emulsions are generally more economical than the silicone fluids as R&D efforts and equipment can be saved on the polish manufacturer's side.

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