

BC 338 SILICONE WAX EMULSION

Description

Basildon Chemicals 338 Silicone Wax Emulsion has been produced to enable a polish base to be formulated from a simple blend of materials without using heat or high-shear mixing equipment. BC338 Silicone Wax Emulsion contains a mixture of silicone fluids to give optimum 'shine' and a small amount of wax to prevent smearing or finger-marking of the polished surface.

Product Features

1. Simple to use concentrate for making polishes.
2. Contains main polish components, so no need for time consuming formulation work.
3. Minimal batch-to-batch variation.

Typical Properties

These values are not intended for use in preparing specifications (see table).

Method of Use

BC338 Silicone Wax Emulsion is readily diluted with water to any concentration and is compatible with most commonly used polish components. It is also very effective when used in a trigger spray bottle. The formulation is not stable, but can be redispersed on shaking, or thickened for stability.

Sample Formulation:

BC338 Wax Emulsion	14.0%
Isopropanol (or Dioxitol)	4.5%
Volpo 03* (Oleyl Alcohol 3 mols EO) or similar wetting agent	0.5%
Perfume	up to 0.3%
Preservative	up to 0.2%
Water	up to 100.0%

* Croda Chemicals

A more economical product can be formulated by using half the BC338 Silicone Wax Emulsion with Isopropanol and

reducing perfume levels. Better cleaning can be achieved by replacing Volpo 03 with nonyl phenol ethoxylate (10 EO) or similar, but this may make the polish a little more difficult to 'rub-out'.

Method of Manufacture:

Measure the water into a mixing tank. Dissolve the perfume and Volpo in the isopropanol in a separate vessel. Add the isopropanol mixture to the water using vigorous or high-shear mixing. Finally add BC338 and preservative whilst stirring slowly. The product can then be packed into aerosols or spray bottles. A typical aerosol formulation would be 95% polish, plus 5% butane propellant.

Toxicity and Handling

BC338 Silicone Wax Emulsion is basically non-hazardous with a very low order of toxicity, although prolonged contact with the skin or contact with the eyes may cause some irritation. See our material safety data sheet for more information.

Storage and Shelf Life

The product should be stored below 32°C and not allowed to freeze. Shelf life of the unopened container is 12 months from date of manufacture. If you wish to use the product after this time please contact us for approval.

Technical Service

Our technical and sales staff have considerable experience of the use of silicone products in a very wide variety of industries and the benefit of this experience is freely available to all our customers.

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Typical Properties

Specific gravity (25°C):	1.0
Appearance:	Off white, mobile emulsion
Percentage solids content:	33

Although every effort has been made to ensure that the information contained in this data sheet is reliable, we cannot be held responsible for the correctness of the information or for any loss, injury or damage which may result from its use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

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