

SiSiB® PC16241 Silicone Elastomer Emulsion

INCI NAME

Dimethicone (and) Dimethicone Crosspolymer

INTRODUCTION

SiSiB® PC16241 is a high molecular weight silicone crosslinked copolymer dispersed in low-viscosity polydimethylsiloxane. It offers a soft, silky, powdery feel that is non-greasy, non-sticky, with good spreadability and a light elastic finish.

When used in primers and foundations, SiSiB® PC16241 significantly improves the spreadability of the product, making makeup easier to apply, more comfortable, and more natural. It also helps absorb excess sebum, providing an oil-controlling effect that keeps makeup clean and long-lasting.

In skincare formulations, it helps reduce overall viscosity, imparts a silky, pleasant skin feel, and leaves the skin soft and smooth. In sunscreen products, it reduces greasiness and enhances the application experience and spreadability.

With a matte effect and strong water resistance, SiSiB® PC16241 helps prevent shrinkage in lipsticks and similar formulations, offering a more moisturized feel. It can also be used as a binder in powder cosmetics to improve product cohesion and wear.

ADVANTAGES

- Moisturizing, silky, soft with a powdery texture
- Film forming sensation, improving product moisturizing performance
- Durable matte effect
- Absorb the oil secreted by the skin, control oil
- No greasy feeling
- Can reduce the stickiness in the formula
- Covering small wrinkles
- Can increase formula viscosity
- Strong water resistance
- Easy to formulate, both cold and hot

PHYSICAL PROPERTIES

Appearance	Transparent to translucent gel
Refractive index (nd ²⁵)	1.3930-1.403
Specific gravity (25°C)	0.95-0.99

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Viscosity (mPa·s)	250000-550000
Carrier	Dimethicone(5cst)

BENEFITS & APPLICATIONS

SiSiB® PC16241 can be used to formulate water-in-oil, oil-in-water, and water-in-silicone systems. It is also suitable for the preparation of anhydrous products.

Common applications of SiSiB® PC16241 include:

- Skin care products
- Cosmetics and sunscreen formulations
- Antiperspirants and deodorants

SiSiB® PC16241 silicone elastomer gel should be added to the formulation along with the oil or silicone phase. It is important to ensure that the elastomer is fully dispersed within the oil phase before further processing.

RECOMMENDED DOSAGE

The recommended usage level is 2%-80%.

PACKING

SiSiB® PC16241 is available in 20Kg or 180kg drum.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

In the original unopened packaging, SiSiB® PC16241 has a shelf life of two years in a dry and cool place. The storage temperature could not be over 50°C.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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