

PRESS RELEASE

Number 2

PCHi 2023:

WACKER Presents Water-Compatible Silicone Resin Elastomer Gel for Cosmetics and Skin Care Products

Guangzhou, February 15, 2023 – At PCHi 2023, WACKER will present BELSIL® REG 1103 B silicone resin elastomer gel developed for skin care and color cosmetic products. Unlike a classic elastomer gel, BELSIL® REG 1103 B features water- and glycerin compatible properties, opening up entirely new formulation options for cosmetics manufacturers. Another WACKER highlight during the show is the new BELSIL® DM silicone emulsion series for hair care applications. It was developed for formulations using gentle preservatives and demonstrates good conditioning effects to both dry and wet hair. PCHi 2023 takes place in Guangzhou from February 15 to 17.

The new BELSIL® REG 1103 B is a colorless, clear to slightly translucent gel consisting of three silicone components: a silicone resin containing crosspolymer, a non-volatile silicone fluid and silicone glucoside, a silicone polymer modified with glucoside. As a gentle, non-PEG water-in oil emulsifier, the silicone glucoside provides water- and glycerin-compatible properties to the silicone elastomer, making the gel a good co-emulsifier and skin conditioner in water-in oil formulations. Mixing BELSIL® REG 1103 B with water produces a stiff cream characterized by a fully-bodied, homogeneous texture in which pigments do not settle.

BELSIL® REG 1103 B is not only water-compatible, it also has a water-break effect: water absorbed during the formulation process is released in the form of tiny droplets when applied, conferring a fresh and light skin feeling. Unlike traditional water-breaking formulations produced by using emulsifiers, water-breaking formulations produced by BELSIL® REG 1103 B release water continuously and delicately. When applied, water droplets break out slowly thus avoid interrupted skin feel caused by discontinuous water release.

Thanks to its water- and glycerin-compatible properties, even without additional emulsifiers, BELSIL® REG 1103 B allows polyols or other water-soluble moisturizing ingredients to be added into all-oil lip makeup formulas, such as velvet lip gloss and lip mud, and keep their velvety texture and matte makeup effect unchanged. Thus, the new elastomer gel provides a long-lasting moisturizing effect in lip makeups.

As a typical silicone resin elastomer gel, BELSIL® REG 1103 B combines the skin-sensory properties of crosslinked silicone polymers with the film-forming effects of silicone resins. This combination of properties makes the product a multifunctional ingredient for skin care and cosmetic products. The gel lends formulations a texture that leaves the skin feeling extraordinarily soft and silky. The film formed by silicone resin modified crosslinked polymer is flexible and translucent, adhering well to the skin. BELSIL® REG 1103 B is also capable of scattering light, an effect similar to that produced by a soft-focus lens. In this way it does a good job of visibly concealing contours and wrinkles.

During PCHi 2023, WACKER will also present a new BELSIL® DM silicone emulsion series for hair care products. These emulsions offer good conditioning effects for both dry and wet hair. They can effectively repair damaged hair and provide a soft hand. The new BELSIL® DM emulsions adopt gentle preservatives to support customers to develop safe and gentle hair care products.

At 11 am on Feb. 16, WACKER will give a talk at PCHi 2023 Sustainable Beauty Conference. Entitled “WACKER Silicone: For Beauty, For Planet. Our Efforts on Low-Carbon Life”, WACKER expert will introduce WACKER’s sustainability strategy and its sustainable products for personal care.

Visit WACKER at PCHi 2023, Booth A51, Hall 1 and attend WACKER’s lecture at Hall 4.1, Sustainable Beauty Conference!



BELSIL® REG 1103 B silicone resin elastomer gel (left) becomes stiff cream (right) after mixing with water. (Photo: WACKER)

For further information, please contact:

Wacker Chemicals (China) Co., Ltd.

Corporate Communications

Jessica He

Tel. +86 21 6130-2588

Fax +86 21 6130-2500

jessica.he@wacker.com

The company in brief:

WACKER is a globally active chemical company with some 14,400 employees and annual sales of around €6.21 billion (2021). WACKER has a global network of 27 production sites, 23 technical competence centers and 52 sales offices.

WACKER SILICONES

Silicone fluids, emulsions, rubber and resins; silanes; pyrogenic silicas; thermoplastic silicone elastomers

WACKER POLYMERS

Polyvinyl acetate and vinyl acetate copolymers and terpolymers in the form of dispersible polymer powders, dispersions, solid resins and solutions

WACKER BIOSOLUTIONS

Biotech products such as cyclodextrins, cysteine and biologics, as well as fine chemicals and PVAc solid resins

WACKER POLYSILICON

Polysilicon for the semiconductor and photovoltaics industries