

PRESS RELEASE

Number 10

IN-COSMETICS 2015

WACKER Presents New Silicone Elastomer Gels for the Cosmetics Industry

Munich, February 27, 2015 – Munich-based chemicals group WACKER will debut its new silicone elastomer gels BELSIL[®] EG 1 and BELSIL[®] REG 102 at in-cosmetics 2015. Both products impart a special texture to skin-care products and decorative cosmetics, leaving skin feeling extraordinarily soft and silky smooth. They also make the end products spread readily over the skin. BELSIL[®] REG 102 additionally provides long-lasting effects by enhancing water and transfer resistance. In-cosmetics will be held in Barcelona, Spain, from April 14 to 16.

Both BELSIL[®] EG 1 and BELSIL[®] REG 102 offer enhanced skin-feel properties, compared with established silicone elastomer gels. The two new products also exhibit pronounced shear-thinning attributes: they remain solid when at rest but undergo a reversible conversion to a liquid state in response to shear stress. Products formulated with them are therefore easy to apply and spread readily over the skin.

Both gels contain cyclopentasiloxane, a volatile silicone fluid widely used in the cosmetics sector; as a liquid component. When applied, the cyclopentasiloxane evaporates. Only the elastomer remains on the skin. As a result, the formulator can freely modify the desired consistency and sensory effects of the elastomer after its application. BELSIL[®] EG 1 is derived from a classic addition-curing silicone

elastomer, whereas BELSIL[®] REG 102 is based on a specialty silicone which is crosslinked to a three dimensional network via silicone resin segments.

As a result, the silicone resin elastomer combines the skin sensation produced by flexible silicone loops with the good film-forming properties of silicone resins. This combination of properties makes BELSIL[®] REG 102 a multi-functional active ingredient for skin-care applications and decorative cosmetic products. The gel forms a water-repellent film that adheres well to the skin without becoming sticky.

Thanks to its favorable film-forming and adhesion properties, BELSIL[®] REG 102 makes cosmetic formulations more water- and transfer-resistant, thus providing long wear benefits. The product helps to make lipsticks kiss-proof, prevents makeup from rubbing off on clothing, and reduces the wash-off of sunscreens. It also adds to moisturizers and night creams a very pleasant and silky soft skin feeling. These skin-feel properties are especially favorable and long-lasting.

The silicone elastomer serving as the solid gel component in BELSIL[®] EG 1 lacks the structural attribute of the silicone resin. Accordingly, BELSIL[®] EG 1 is intended for cosmetic products that are not required to meet high demands on water and transfer resistance. BELSIL[®] EG 1 is preferred for enhancing rheological and skin-sensory properties, especially of skin-care creams, as well as mascaras, skin cleansers and deodorants.

Visit WACKER at in-cosmetics 2015, Booth 6M20.



New active ingredient BELSIL® REG 102 is a clear, yellowish silicone resin elastomer gel. Used as an integral component or as an additive, it boosts the transfer- and water-resistance of cosmetic products and leaves the skin feeling pleasantly soft and silky smooth. (Photo: Wacker Chemie AG)

Note:

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http://www.wacker.com/press_releases

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The company in brief:

WACKER is a globally-active chemical company with some 16,000 employees and annual sales of around €4.48 billion (2013). WACKER has a global network of 25 production sites, 21 technical competence centers and 52 sales offices.

WACKER SILICONES

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

WACKER POLYMERS

Polyvinyl acetates and vinyl acetate copolymers in the form of dispersible polymer powders, dispersions, solid resins and solutions used as binders for construction chemicals, paints and coatings, adhesives, plasters, textiles and nonwovens, as well as for polymeric materials based on renewable resources

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 photovoltaic industries

Siltronic

Hyperpure silicon wafers and monocrystals for semiconductor components