

PRESS RELEASE

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SAWC Show 2016

WACKER Presents Silicone Adhesive for Traditional Wound Dressings and Tapes

Munich, April 13, 2016 – WACKER, the Munich-based chemical company, is unveiling its SILPURAN® 2114, SILPURAN® 2122 and SILPURAN® 2142 silicone gels to a diverse range of trade visitors at the SAWC Show 2016. These gels are designed for the production of adhesive layers as used in traditional wound-dressing and tape products. All three silicone gels adhere strongly to the skin without sticking to the wounds, and can be peeled off painlessly without leaving a residue. The SAWC Show takes place in Atlanta (GA), USA, from April 13 to 17.

WACKER continues to expand its range of silicone adhesives and is now offering products with high adhesive strength in the form of SILPURAN® 2114, SILPURAN® 2122 and SILPURAN® 2142. The new adhesives adhere strongly enough to be used in adhesive plasters, dressing retention materials and other traditional wound dressing products, as well as in medical, sport and therapeutic tapes. Applications such as these have not been possible with silicone adhesives before.

The three new adhesive types are two-component, colorless and transparent silicone gels that crosslink via a platinum-catalyzed addition reaction to form soft, highly flexible materials with a elastic, gel-like consistency. The flexibility of the silicone, together with its low

surface energy, ensures that a bond develops between the crosslinked gel and the skin, while at the same time the elasticity allows the adhesive layer to be peeled off easily, leaving no residues. SILPURAN® 2114, SILPURAN® 2122 and SILPURAN® 2142 have such a good balance of resilience and elasticity that they have a significantly stronger adhesive force than the silicone adhesives that have been available until now.

Graded Adhesion

The three new products chiefly differ according to their viscosity and adhesion properties. The strongest adhesion – with a value of 7.5 newton per inch - measured by the 90 degree peel test for peeling from a stainless steel test plate – is achieved by SILPURAN® 2142. In the uncrosslinked state, this product is as viscous as honey, and is especially suitable for manufacturing stoma care products.

The principal applications of SILPURAN® 2122 are traditional adhesive plasters, as well as medical, sport and therapeutic tapes. SILPURAN® 2122 shows an adhesive strength of 5.5 newtons per inch. SILPURAN® 2114 offers the lowest adhesive strength, i.e. 3.5 newtons per inch. The viscosity of this product lies between that of the other new adhesive gels. SILPURAN® 2114 is ideal for producing modern wound dressings which, thanks to the improved adhesion, offer extended wear time.

SILPURAN® have a successful track record of many years in wound dressing for treating chronic and large-area wounds. They are extremely gentle when adhering to the skin, and make dressing change painless and the removal atraumatic. The three new silicone

adhesive gels are therefore also suitable for applications as traditional plasters and dressing retention products.

SILPURAN[®] 2114, SILPURAN[®] 2122 and SILPURAN[®] 2142 contain neither plasticizers nor stabilizers. The cured products, which are water-repellent, have the properties typical of silicones: they remain soft and flexible between -50 and +200° Celsius, are chemically stable and aging resistant, and can be sterilized with ethylene oxide. They also have a water-repellent surface, but are permeable to water vapor and gases, creating an optimum milieu for wounds to heal.

SILPURAN[®] silicones from WACKER have passed selected tests for biocompatibility according to ISO 10993 and US Pharmacopeia Class VI. Like all SILPURAN[®] products, the three new silicone adhesives are manufactured in accordance with WACKER's in-house Clean Operations Standard, and are dispensed and packaged under cleanroom conditions.

Visit WACKER at the SAWC Show 2016 at Booth 237.



At the 2016 SAWC show, WACKER is showcasing its new silicone adhesives SILPURAN[®] 2114, SILPURAN[®] 2122, and SILPURAN[®] 2142. The gels are designed for the production of adhesive layers as used in traditional wound-dressing and tape products. (Photo: Wacker Chemie AG)



At SAWC, WACKER presents SILPURAN[®] 2114, SILPURAN[®] 2122 and SILPURAN[®] 2142. These silicone adhesives offer comparatively strong adhesive strength. They can be used for adhesive plasters, dressing retention materials and other wound dressing products. (Photo: Wacker Chemie AG)

Note:

These photos are available for download at:

<http://www.wacker.com/pressreleases>

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The company in brief:

WACKER is a globally active chemical company with some 17,000 employees and annual sales of around €5.30 billion (2015). WACKER has a global network of 25 production sites, 22 technical competence centers and 50 sales offices.

WACKER SILICONES

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

WACKER POLYMERS

Polyvinyl acetate and vinyl acetate copolymers 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

Siltronic

Hyperpure silicon wafers and monocrystals for semiconductor components

