

PRESS RELEASE

Number 41

Latin American Coatings Show 2017

WACKER Presents Silicones and Polymer Binders for High-Quality Paint and Coating Applications

Munich/Mexico City, June 20, 2017 – This year is the first time that WACKER, the Munich-based chemical company, is taking part in the Latin American Coatings Show, where it will be presenting numerous innovative polymer and silicone products for the region’s paint and coatings sectors. Silicone resin emulsion SILRES® WH 80 A, for instance, provides treated wood with long-lasting protection against damp, moisture and consequential damages. PRIMIS® AF 1000 is a binder that ensures highly durable, brilliant exterior paints with reduced dirt pick-up, while the VINNAPAS® EP 3360 dispersion makes it possible to formulate low-odor paints. Other highlights include silicone solutions for anti-graffiti and water-repellent, though vapor-permeable architectural coatings, as well as binders for self-leveling floor screeds, fire-protection coatings and waterproofing membranes. The Latin American Coatings Show takes place in Mexico City from June 20 to 22, 2017.

“Latin America is a promising market for WACKER. Quality and environmental awareness is constantly on the rise, particularly in the paint and coatings industries. This trend, in turn, is leading to an increase in demand for our high-quality product solutions,” explains Jaime Lezama del Valle, Managing Director of WACKER Mexicana. “This tradeshow therefore offers us a great opportunity to present our broad portfolio within the region for the first time and so tap into further market potential.”

Long-Lasting Protection for Wood Surfaces: SILRES® WH 80 A

WACKER is showcasing its SILRES® WH 80 A silicone resin emulsion in the region for the first time. The hydrophobic effect of this emulsion means that wood used outdoors is afforded reliable protection against damp, moisture and any associated consequential damage. What is special about this emulsion is that it retains the hydrophobic properties typical of silicones for many years. It keeps water out but allows moisture to evaporate from the substrate. The 50-percent emulsion is based on a functional silicone resin and can serve as a water-repellent impregnating agent or as an additive for formulating film-forming, pigmented wood stains. SILRES® WH 80 A produces a clearly visible beading effect on wood surfaces. In water-based stains the recommended addition rate is up to 5 percent.

Less Dirt, More Color: PRIMIS® AF 1000

PRIMIS® AF 1000 is a dispersion that combines organic and mineral components to produce high-quality, sophisticated exterior paints: the elastic, acrylic-ester-based, organic component provides considerable adhesion, good mechanical properties and enhanced processability. The solid mineral components, on the other hand, have outstanding protective properties and ensure long-lasting, bright colors and reduced dirt pick-up. The dispersion ensures improved facade appearance also due to reduced leaching of emulsifiers and other water soluble additives (“snail trails”). PRIMIS® AF 1000 is therefore ideal as a binder for long-lasting exterior paints.

Low-VOC Wall Paints: VINNAPAS® EP 3360

A dispersion based on vinyl acetate and ethylene (VAE), VINNAPAS® EP 3360 is suitable for flat and semi-flat paints and plasters that exhibit very high scrub resistance and better hiding power than standard acrylic

systems at the same PVC (pigment volume concentration) level. It also has a very low residual monomer content (< 200 ppm) and a very low formaldehyde content (< 20 ppm) and does not need organic solvents or coalescing agents. The dispersion makes it possible to formulate low-odor paints with an extremely low content of volatile organic compounds (VOC < 1 g/l) and is therefore ideal for locations where paints with low emission values are a must – such as children's bedrooms, hotels and public buildings (e.g. hospitals and schools).

New Binder for High-End Digital Printing Inks: VINNOL® E 18/38

WACKER will also showcase its new low-viscosity binder VINNOL® E 18/38 for high-end digital printing applications. The vinyl chloride-vinyl acetate-copolymer resin ensures excellent droplet formation in solvent-based ink-jet inks. This increases the print quality of the end product and extends the longevity of the printhead. VINNOL® E 18/38 adheres extremely well to flexible PVC along with numerous other substrates and is therefore ideally suited for wide-format printing of advertising banners, but also for cables, screw caps and many other plastic items.

Bubble-Free Self-Leveling Flooring Compounds:**VINNAPAS® 5115 L**

WACKER is presenting its VINNAPAS® 5115 L dispersible polymer powder for perfectly leveled surfaces. This powder is especially advantageous in combination with superplasticizers for the production of self-leveling flooring compounds and screeds. Their very good defoaming properties results in exceptionally smooth, uniform surfaces without air bubbles while also offering high abrasion resistance, flexural and compressive strength.

Further WACKER highlights at the Latin American Coatings Show:

- **Protection of Mineral Surfaces: SILRES® BS 26**

SILRES® BS 26 is an emulsion that is both hydrophobic and oleophobic, making it ideal for sealing mineral surfaces such as concrete, stone and unglazed tiles. It is resistant to UV and is not film-forming, so it can be used indoors or outdoors, on both vertical and horizontal surfaces.

- **Protection against Water: VINNAPAS® 5044 N and VINNAPAS® 8034 H**

The VAE-based dispersible polymer powder VINNAPAS® 5044 N provides strong adhesion – even after continuous exposure to water – high elasticity, outstanding crack-bridging ability and easy processing. It is therefore ideal for durable coatings for sewers, piping, basements, swimming pools and moisture-prone areas.

VINNAPAS® 8034 H exhibits even greater hydrophobicity. Other outstanding properties of this flexible dispersible polymer powder include enhanced adhesion, scrub resistance and ease of processing, making it ideal for grout mortars, plasters and skim coats.

- **Protection from Graffiti: SILRES® IC 701**

To protect concrete, masonry and metallic surfaces from graffiti, WACKER is showcasing SILRES® IC 701. It is based on polysiloxane polymers, which makes it particularly resistant to weathering. The product dries as a result of a condensation reaction at room temperature by reacting with atmospheric humidity. Multiple graffiti tagging can be removed easily with water.

- **Fire Protection: VINNAPAS® EZ 3112 and VINNAPAS® EZ 3067**

VINNAPAS® EZ 3112 and VINNAPAS® EZ 3067 are dispersions that enhance the adhesion and stability of intumescent coatings. On exposure to heat, these

specialty coatings expand to ten to 100 times the original coating thickness, thereby ensuring that the rate at which the load-bearing structures of a building melt or buckle in the event of a fire slows. If suitably formulated, both these dispersions can attain an extremely heat-resistant coating with a fire-resistance rating of F120 (heat protection for up to 120 minutes).

Visit WACKER (booth 320/322) at the Latin American Coatings Show 2017 in Mexico City.



The new silicone resin emulsion in the SILRES® WH line provides wood with long-lasting protection against moisture and damp, as evidenced by the beading effect on impregnated wood (right). In contrast, the untreated wood (left) becomes damp immediately. By providing long-term protection, SILRES® WH greatly reduces the frequency of renovating and recoating exterior woodwork (photo: Wacker Chemie AG).



Testing color stability in the lab: the effects of months of outdoor weather conditions can be simulated by alternating heat and cold, UV light and moisture in the lab. Even after 1,000 hours, the brilliant colors of the sample (right) formulated with the new PRIMIS® AF 1000 dispersion remain unchanged, whereas the commercial alternative (left) exhibits weathering (photo: Wacker Chemie AG).






Product test: an employee checks panels coated with VAE-based interior architectural paints as they dry on a rack. The new VAE dispersion VINNAPAS® EP 3360 enables the formulation of high-performance interior paints with reduced emissions (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 13,450 employees and annual sales of around €4.6 billion (2016, excluding Siltronic). WACKER has a global network of 23 production sites, 19 technical competence centers and 49 sales offices.

WACKER SILICONES

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

WACKER POLYMERS

Polyvinyl acetates 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 photovoltaic industries