

PRESS RELEASE

Number 26

European Coatings Show 2017

WACKER Presents New Dispersions for High-Performance Paints and Plasters

Munich / Nuremberg, April 4, 2017 – At this year's European Coatings Show (ECS), Wacker Chemie AG will present PRIMIS® KT 3000, which allows exterior wall paints and plasters to set quickly and reliably, even at low temperatures. The additive, based on zinc acetate and polyethyleneimine, forms a kind of gel that distributes homogeneously in the coating and makes it resistant to the effects of weathering after a short time. In addition, WACKER will showcase the low-odor dispersion VINNAPAS® EZ 3011 for low-emission interior wall paints. The ECS 2017 will be held in Nuremberg, Germany, from April 4 to 6.

Polymer chains in binders generally only set fully when the temperature is at least 5 °C for the entire drying time (several days) and the coating does not get wet. PRIMIS® KT 3000 now considerably shortens this time frame – the critical period is reduced to six hours for wall paints and plasters that are formulated with the additive. Even when atmospheric humidity is high, a stable polymer network forms with PRIMIS® KT 3000.

This is due to the additive's polymer base. The zinc acetate forms complexes with water molecules, while the polyethyleneimine binds the individual components in the paint or plaster to each other. That creates a kind of gel, which distributes homogeneously in the coating and makes it resistant to low temperatures and rain after just six hours. At the same time, water molecules can evaporate from the paint or plaster, allowing it to dry fully. The additive can readily be mixed with WACKER's VAE dispersions of the VINNAPAS® range. In this way, PRIMIS® KT 3000 makes it possible to

perform outdoor painting work in late autumn or spring in cooler regions, too.

VINNAPAS® EZ 3011 for High-Quality, Low-Emission Indoor Paints

Another novelty at the ECS 2017 is VINNAPAS® EZ 3011, a waterborne polymer dispersion based on vinyl acetate and ethylene that has a very low environmental impact. The product is manufactured without the use of alkylphenol ethoxylates (APEOs), plasticizers, film-forming agents or solvents, is low-odor and boasts a low formaldehyde content (< 20 ppm). It also lends itself to paint formulations that have a low volatile-organic-compound content (VOC < 1 g/L). Furthermore, VINNAPAS® EZ 3011 offers excellent pigment-binding capacity and high color consistency. The new dispersion is thus ideal as a binder for formulating high-performance yet low-odor and low-emission interior paints.

Visit WACKER at ECS 2017, Hall 1, Booth 1-510.



Direct comparison in the lab: after drying for six hours, the test surfaces are sprayed with water. While the conventional plaster (left) is unable to withstand the moisture, the plaster modified with the additive PRIMIS® KT 3000 (right) forms a stable polymer network after just a few hours – even when atmospheric humidity is high and temperatures are only 5 °C (photo: Wacker Chemie AG).



Preparation of a test piece in the lab: the new dispersion VINNAPAS® EZ 3011 is ideal as a binder for formulating high-performance yet low-odor and low-emission interior paints (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 17,200 employees and annual sales of around €5.40 billion (2016). WACKER has a global network of 26 production sites, 22 technical competence centers and 51 sales offices.

WACKER SILICONES

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

WACKER POLYMERS

Polyvinyl acetate and vinyl acetate co 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

Siltronic

Hyperpure silicon wafers and monocrystals for semiconductor components