

PRESS RELEASE

Number 4

EUROPEAN COATINGS SHOW 2009: WACKER Presents Novel Polymer Systems for Sustainable Coating, Construction and Adhesive Applications

Munich, January 26, 2009 – At the European Coatings Show (ECS) in Nuremberg from March 31 to April 2, 2009, the Munich-based WACKER Group will be appearing under the slogan “Inspired by Excellence.” The focus will be on sustainable product solutions from the fields of coatings, construction and adhesives: innovative dispersible polymer powders for use in durable elastic sealing slurries and self-leveling compounds without added superplasticizer; a particularly user-friendly dispersion free of ammonia, superplasticizers and solvents; and a novel polymer for use in sprayed concrete for tunnel lining and applications in mining and underground construction.

At ECS in Nuremberg, WACKER will be presenting two new VINNAPAS® polymer powders for complex, sustainable applications in the construction industry. The newly developed VINNAPAS® LL 4040 N is cationically stabilized. That makes one-component flexible sealing slurries very easy to process. They are still convenient to process even if they contain large quantities of binders, as required for elastic and crack-resistant construction sealants. Other features include strong adhesion after prolonged water exposure and excellent crack bridging. With these benefits, VINNAPAS® LL 4040 N is ideal for applications such as sealing slurries for durable and sustainable

coatings for sewers, pipes and basements, or beneath tiles in bathrooms.

VINNAPAS® 5014 F: Two Functions in One

The new VINNAPAS® 5014 F combines two functions in one, since it is not only a polymeric binder but also a highly efficient superplasticizer. Only 1 to 2% dispersible polymer powder provides sufficient superplasticizing effect on its own. Moreover, the new VINNAPAS® 5014 F increases the compound's stability against excess water and reduces the shrinkage of cementitious mortars. The shear-thinning rheology of VINNAPAS® 5014 F improves pumping characteristics for machine application. That makes it ideal for formulating efficient, pumpable self-leveling compounds.

VINNAPAS® SAF 72: Easy to Use and Odor-Free

Another production innovation to be unveiled at ECS is VINNAPAS® SAF 72. This superplasticizer-free and solvent-free dispersion is particularly easy to process and allows broad formulation latitude, since it can be combined with many different film-formers. Besides good processability and excellent mechanical properties, it also features a unique rheology and superb water resistance. This fine dispersion is also free of ammonia, so there are no unpleasant odors when it is processed and used on alkaline substrates. Fast-drying VINNAPAS® SAF 72 is particularly suitable for tile-adhesive pastes (class D2 as per EN 12004) and primers.

Polymer-Modified Spray Concrete: Clear System Cost-Benefits

Another highlight at this year's ECS is a novel polymer for modifying spray concrete for applications in mining, tunneling and underground construction. As the tunnel is driven, the polymer-modified concrete is sprayed onto the walls to consolidate loose rock. It also provides a barrier against water seepage, and reduces the amount of superplasticizer required in the formulation. Since the polymer improves the concrete's adhesion, there is less rebound when it is sprayed onto the tunnel wall. That reduces both material consumption and transportation and disposal costs. The new polymer thus greatly speeds up tunnel construction and reduces system costs, while greatly rationalizing tunnel and underground construction.

Further WACKER product highlights at ECS 2009:

- GENIOSIL® STP-E: turbo-setting hybrid adhesives
- Cyclodextrin-fragrance complexes for innovative coatings
- SILRES® HP: UV-resistant silicone resin coatings protect against corrosion
- SILRES® BS: silicone resin emulsion paints for effective facade protection
- VINNOL® surface-coating resins: versatile binders for industrial coatings and printing inks
- VINNAPAS® solid resins: polyvinyl acetate for coatings and adhesives applications
- HDK® pyrogenic silicas – complete control of the flow of liquid and powder coating materials

Visit WACKER at the European Coatings Show 2007 at booth 107 in Hall 9.



Sealing slurries modified with VINNAPAS® LL 4040 N are extremely flexible and elastic, as well as crack resistant and water repellent. These properties make them ideal for application in baths and pool/spa facilities, in basements or as coatings for pipes and sewers (photo: Wacker Chemie AG).

Polymer-modified concrete is sprayed onto the walls in the Stetten salt mine to stabilize the tunnel and to act as a barrier to water seepage. The innovative formulation reduces the rebound during spray application, and so minimizes waste and material consumption (photo: Wacker Chemie AG).



Note:

You can download these pictures at:

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

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The company in brief:

WACKER is a globally-active chemical company with some 15,000 employees and annual sales of around €3.78 billion (2007).

WACKER has 27 production sites and over 100 sales offices worldwide.

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 and solid resins used as binders for construction chemicals, coatings, adhesives, paints, plasters and nonwovens

WACKER FINE CHEMICALS

Fine chemicals, biologics and other biotech products, such as cyclodextrins and cysteine

WACKER POLYSILICON

Polysilicon for the semiconductor and photovoltaics industries; solar wafers

Siltronic

Hyperpure silicon wafers and monocrystals for semiconductor devices