Press Release

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EUROPEAN COATINGS SHOW 2025

WACKER to showcase sustainable binders for the coatings, adhesives and construction industry

- WACKER, a leading specialty chemicals manufacturer for the coatings, adhesives and construction materials industries, will be showcasing its offerings in Hall 1, Booth 1-206
- On a floor size of 300 square meters, several new products will be presented to booth visitors
- Hightlights include alpha-silane crosslinking binders for adhesives, sealants and assembly adhesives as well as sustainable solutions for the building materials industry
- Numerous exhibits in the Booth's Coatings, Adhesives and Construction zones round off WACKER's trade fair presentation

Munich – WACKER is all set to showcase several product novelties at this year's European Coatings Show (ECS) from March 25 to 27. In Hall 1, Booth 1-206, the company will be demonstrating its expertise as a leading manufacturer of specialty chemicals for the coatings, adhesives and building materials industry on a floor space of 300 square meters. Among the newcomers are alpha-silane-crosslinking binders for the formulation of high-quality adhesives, sealants and assembly adhesives. Sustainable solutions for the coatings and building materials industry will also play a major role this year.

True to the company motto "Here for you", WACKER will, as it has in past events, once again focus on talks and the collaboration with customers at this year's ECS. Numerous exhibits are intended to clearly demonstrate the relevant products and features in the booth's "Coatings", "Adhesives" and "Construction" zones. "Our focus this year is, for instance, on innovative hybrid polymers based on our new alpha^3 technology. In terms of elastic modulus and recovery, they surpass their

predecessors in every way. Moreover, they also allow the formulation of tin-free products which is a significant gain in consumer safety," says WACKER Silicones President Tom Koini. Another highlight is a silicone sealant for natural stone that is based on biomethanol and produced in a resource-efficient manner. Koini: "Such products offer our customers real added value."

Sustainable solutions for the building materials industry will also play an important role at the booth. For example, the chemicals group will be presenting special dispersible polymer powders that enable the formulation of high-quality tile adhesives based on emissions reduced cement. "Sustainability is no longer a trend, but a business imperative along the value chain", Peter Summo, President of WACKER's Polymers division, points out. "We want our solutions to enable our customers to establish future technologies that cut CO_2 emissions and conserve resources. Sustainability is the key to future success."

WACKER will be unveiling the following products at ECS 2025:

- **Coatings**

In the Coatings Zone, SILRES® HP 2000 LV and VINNOL® H 15/45 M Renewable Energy are celebrating their debut this year. With **SILRES® HP 2000 LV,** the Group will be unveiling an improved version of its successful hardener system for epoxy-polysiloxane topcoats. The new product contains significantly less volatile compounds, as indicated by the suffix "LV" (for low volatiles). Consequently, it is now possible to formulate high performance metal coatings that are safer to process and to apply.

Another coatings highlight is WACKER's **VINNOL® H 15/45 M Renewable Energy**, a copolymer of vinyl chloride and vinyl acetate containing carboxyl groups, which is mainly used as a binder for heat-sealing coatings, industrial coatings and printing inks. The product is manufactured using electrical energy generated from renewable energy sources, significantly lowering the carbon footprint (PCF value). VINNOL® H 15/45 M Renewable Energy offers several advantages, including outstanding product and processing properties and excellent metal adhesion.

- **Adhesives**

Formulators and manufacturers of adhesives and sealants should also visit WACKER at ECS. Three new products will be displayed in the Adhesives Zone this time: the silane-terminated polyethers GENIOSIL® STP-E 140 and GENIOSIL® STP-E 340 and the neutral-curing silicone sealant ELASTOSIL® eco 7770 P.

GENIOSIL® STP-E 140 & GENIOSIL® STP-E 340: Both products are based on WACKER's state-of-the-art alpha³ technology. The silane-crosslinking polymers consist of both alpha and gamma-silyl groups, thus combining the advantages of both alpha and gamma-silane-crosslinking polyethers. Just like conventional

alpha-silane-terminated polymers, the new polymers do not require a tin catalyst for curing. The binders enable the formulation of tin free adhesives that exhibit high elasticity and low modulus – properties that are extremely useful in the construction sector.

Both binders can be processed into creep-resistant, fast-curing adhesives. They also facilitate the production of low-modulus sealants. These are flexible and, even without the application of much force, retain elasticity. Moreover, they also exhibit good elastic recovery, i.e. they return to their original length after exposure to prolonged elongation – a combination of properties that is unusual for conventional alpha-silanes. Adhesives and sealants based on GENIOSIL® STP-E 140 and GENIOSIL® STP-E 340 can be processed and applied without any need to change existing mixing or processing methods. Even formulations without solvents and plasticizers are possible. Incompatibilities with ester-based additives are eliminated, as the polymers crosslink without a tin catalyst.

ELASTOSIL® eco 7770 P: Developed for construction and sanitary applications, the condensation-curing silicone sealant is especially suitable for natural stone applications. The product cures to a low-modulus elastomer with high elastic recovery when exposed to air humidity. The sealant adheres to almost all materials commonly used in the construction industry without requiring primed surfaces. The sealant's special features include high resistance to mold and mildew combined with a low fungicide content and a very low-emission classification in accordance with the guidelines of the German Association for the Control of Emissions in Products for Flooring Installation (GEV).

ELASTOSIL® eco 7770 P is weather resistant and is suitable for interior as well as exterior applications. WACKER applied a distinctive formulation concept in the manufacturing of the new sealant. Based on a special non-volatile silicone softener, it is formulated such that it cannot penetrate the pores of natural stone like marble, granite or sandstone. This means that the stone substrates adjacent to the joint are not hydrophobized. The natural stone remains spot- and flawless. WACKER uses biomethanol in the formulation of ELASTOSIL® eco 7770 P which saves resources. It is the first silicone sealant to be offered exclusively as an eco-product.

- **Construction**

With the aim of reducing CO_2 emissions, the cement industry is increasingly switching its production to Portland composite cements (CEM II). This has serious consequences for several dry-mix mortar products such as tile adhesives. The tensile adhesion strength of these products after immersion in water often does not comply with the applicable standards.

Recent studies by WACKER show that tile adhesives based on CEM II cement can indeed achieve the tensile adhesion strength values to meet the requirements of the relevant standards. This is only possible when polymer binders that contain a special terpolymer instead of a standard vinyl acetate-ethylene copolymer (VAE) are used for improving the tile adhesive formulations. At this year's ECS, WACKER will be presenting three dispersible polymer powders – VINNAPAS® 8118 E, VINNAPAS® 8620 E and VINNAPAS® 7220 E – that are suitable for formulating such tile adhesives.

Additional product highlights:

- **VINNOL® L6868:** Thanks to its very low molecular weight, the product represents the perfect solution for formulators of coatings and printing inks who deal with challenges relating to flow, intercoat adhesion, and flexibility in UV-curing systems. Areas of application include printing inks, plastic coatings, wood coatings, paper coatings and film coatings. VINNOL® L-6868 can also be used to coat solvent-based food-contact packaging.
- **SILRES® BS 6920:** In order to prevent signs of wear and unsightly stains, wear-resistant coatings are usually used for sealing concrete and flowing-screed floors. The silane-based binders SILRES® BS 6920 and SILRES® BS 6921 from WACKER can be used to create solvent-free formulations for thin coatings with varying degrees of hardness and elasticity. Such 1K sealing compounds are suitable for treating floors in need of repair and for synthetic-resin-bound stone carpets.
- **Silicone resin emulsion paints (SREP®):** Silicone resins from WACKER ensure high water-vapor permeability and extremely low water absorption. This protects building exteriors from weather influences and dirt pickup, which, consequently, helps retain the value and longevity of the structure.
- **Cement protection**: Silanes and siloxanes have a long track record as water-repellent agents. They combine outstanding water-repellency with durability and outperform rival product classes in their resistance to physical and chemical influences and algae. Their excellent water repellency comes without significantly impairing water-vapor permeability. At ECS 2025, WACKER will present a range of its protection products for concrete surfaces. Such products are certified in accordance with European building protection standard EN 1504-2.
- **Waterproofing membranes:** WACKER provides solutions for a wide range of waterproofing membranes. VINNAPAS® polymer dispersions and dispersible polymer powders are ideal for the formulation of one-component, ready-to-use,

pasty waterproofing membranes as well as one-component and two-component cementitious systems. At ECS 2025, WACKER is all set to showcase a wide range of tried-and-tested products that exhibit excellent water resistance characteristics.

- **Insect repellents:** CAVAMAX® and CAVASOL® cyclodextrins are capable of encapsulating hydrophobic molecules in a reversible, equilibrium-controlled process. This allows encapsulated essential oils to be added to water-borne paints and coatings to give them a long-lasting insect repellent effect.

WACKER at ECS 2025
VINNOL® H 15/45 M Renewable Energy provides excellent adhesion on both metal surfaces and polar substrates such as PVC and PET. As the product is virtually odorless, tasteless and also possesses excellent resistance to water and chemicals, it is ideal for the safe packaging of food or pharmaceuticals. Under the trade name VINNOL® H 15/45 M (Renewable Energy), WACKER now also markets its product as a more environmentally compatible version aimed at reducing the carbon footprint. (Photo: WACKER)

Metal sheets after a conical bending test. Thanks to the flexibility of SILRES® HP 2000 LV, the pigmented epoxy-polysiloxane topcoat remains crack-free. WACKER will be premiering the hardener at European Coatings Show. (Photo: WACKER).

The silicone sealant ELASTOSIL® eco 7770 P is one of the many product highlights WACKER will be showcasing at the this year's ECS. Biomethanol is used in production, which saves on fossil resources. (Photo: WACKER).

Laboratory tests show that sealants based on the GENIOSIL® STP-E 340 binder exhibit very good elastic recovery properties. WACKER will be premiering the product at the European Coatings Show in March.
(Photo: WACKER)

In tile adhesive formulations with CEM II and VINNAPAS® 8118 E, 8620 E or 7220 E, which contain water-repellent monomers in a terpolymer, the tensile adhesion strength following immersion in water is significantly improved and the requirements specified in the standard are thus met. (photo: WACKER)

Please note:

These photos are available for download at:
http://www.wacker.com/pressreleases

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The company in brief
WACKER is a global company with state-of-the-art specialty chemical products found in countless everyday items, ranging from tile adhesives to computer chips. The company has a global network of 27 production sites, 21 technical competence centers and 46 sales offices with some 16,600 employees and annual sales of around €5.7 billion (2024).

WACKER operates through four business divisions. The chemical divisions Silicones and Polymers supply products (silicones, polymeric binders) for the automotive, construction, chemical, consumer goods and medical technology industries. Biosolutions, the life sciences division, specializes in bioengineered products such as biopharmaceuticals and food additives. Polysilicon produces hyperpure polysilicon for the semiconductor and photovoltaic industries.

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