

PRESS RELEASE

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WACKER Opens New Competence Center for Cement and Concrete Applications in Shanghai

Shanghai, April 9, 2019 – Wacker Chemie AG opened a new competence center for cement and concrete applications in Shanghai, China, today. The laboratory will develop novel silicone based products and solutions which are able to improve the performance of cement and concrete and to make these materials more sustainable. Special focus is on silicone admixtures and performance enhancers for cement and concrete.

According to market experts, China is the world's largest producer and consumer of cement and concrete. However, due to high energy consumption as well as a strong call for environmentally-friendly products and carbon dioxide reduction, the huge cement and concrete industry is also facing a number of challenges, for example, cement and concrete products should become more durable and corrosion resistant.

“WACKER’s new R&D lab in Shanghai will support our customers to cope with these challenges and to seize the market opportunities which have opened up,” says Paul Lindblad, president of WACKER Greater China. “As a regional innovation platform focusing on cement and concrete, the new lab will cooperate with leading Chinese universities, research institutions and the industry. Its goal is to develop innovative products and solutions which support the

sustainable development of the Chinese construction materials industry.”

At its new competence center in Shanghai, WACKER will be able to investigate how silicone chemistry can effectively protect cement and concrete against environmental influences and at the same time improve the durability of these materials. For example, waterproofing technologies for cement and concrete are a hot topic in both academia and industry. Existing surface treatments with silicones are well known and established. For example they are capable of protecting the concrete surface from alkali-silica reaction, efflorescence, graffiti and corrosion. However, the surface treatment also has its limitations. “One of the goals of our lab is to develop silicone products that improve hydrophobicity, durability and other unresolved problems in cement and concrete. For example silicones are capable of making cement hydrophobic. Already several thousand tons of cement have been made using one of our products developed by the competence center for cement and concrete at the Wacker subsidiary in India,” says Dr. Peter Jerschow, Head of Global Product Development for the Business Unit Construction Silicones. “As WACKER’s first competence center which will deal exclusively with silicone-based cement and concrete admixtures, the new lab will leverage our worldwide technological expertise and resources to serve China’s growing cement and concrete industry”.

Thanks to their unique properties, silicones are widely used for the protection of construction materials. Water repellent, vapor permeable and resistant to chemicals and UV radiation, they are available as solid powders, solvent-free liquids or water-based emulsion.

Applications include waterproofing of inorganic insulation materials, protective coatings, damp proofing, pH adjusters for coatings and waterproofing agents for concrete.



WACKER's new Competence Center in Shanghai will develop novel silicone based products and solutions which improve the durability of cement and concrete and support the improvement of processes, sustainability and quality in the construction industry. (Photo: WACKER)

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The company in brief:

WACKER is a globally-active chemical company with some 14,500 employees and annual sales of around €4.98 billion (2018). WACKER has a global network of 24 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