

PRESS RELEASE

Number 5

EUROPEAN COATINGS SHOW 2023

WACKER presents dispersible polymer powders for high bond-strength, easy-to-process tile adhesives and mortars at ECS

Munich, February 17, 2023 – At this year's European Coatings Show, WACKER will be presenting three new polymeric binders for formulating tile adhesives and mortars in exterior insulation and finish systems (EIFS). When added to dry-mix mortars, VINNAPAS® 4419 E, VINNAPAS® 8819 E and VINNAPAS® 4449 E produce an exceptionally creamy consistency, making the resulting product easier for users to process. They also improve slip resistance, wetting capability and open time – the latter being an important property for tile installation. The versatile performance of these new binders makes them the perfect addition to the company's current portfolio of dispersible polymer powders. The European Coatings Show will be held in Nuremberg, Germany, from March 28 to 30.

The new dispersible polymer powders are geared primarily toward improved workability and were developed with a particular focus on the users, i.e., on tilers and other skilled workers. For them, proper mortar consistency is key, both when mixing the dry-mix mortar with water and when subsequently applying the fresh mortar. The creamier and smoother a tile adhesive is and the less physical effort required when applying it, the more pleasant it will be for users to

process. Experts at WACKER's technical competence center for tile adhesives in Burghausen, Germany, have translated those subjective impressions into a measurable parameter: viscosity.

The new VINNAPAS® 4419 E, VINNAPAS® 8819 E and VINNAPAS® 4449 E polymeric binders have been modified in a way that lowers the viscosity of fresh mortar up to 20 percent. As a result, less physical exertion is required for processing the mortar and applying it with a notched trowel. Realistic assessments carried out on test walls have demonstrated that this makes the work much easier. Even in polymer-modified tile adhesives and mortars that are relatively easy to process, users have confirmed that formulations containing the new VINNAPAS® grades are extraordinarily creamy and easy to distribute, which makes laying tiles faster and less taxing.

The new VINNAPAS® products also improve open time and correction time – in other words, the period in which the tiler can still make corrective adjustments before the adhesive sets and solidifies. That improvement is particularly notable in warmer regions with more sunlight, where tilers will now have more time to process fresh mortar, even at higher processing temperatures.

Tilers are not the only ones who stand to gain from the new polymeric binders, incidentally – tile adhesive producers will benefit as well. The favorable processing properties of these types of mortars mean that, in some cases, manufacturers will need far fewer additives – or can even dispense with them entirely.

VINNAPAS® 4419 E and VINNAPAS® 8819 E were developed for tile adhesive formulations. In addition to making mortar easier to process, these new binders also improve the ability of tiles to resist sagging in the mortar bed. Tilers can shift, adjust and ultimately fix tiles into place without major physical exertion. At the same time, the new dispersible polymer powders optimize the degree of wetting on the back of the tile – an especially important feature when working with porcelain tiles or large slabs and creating a secure, permanent bond between these materials and the substrate. VINNAPAS® 8819 E was developed especially with the most demanding applications in mind.

VINNAPAS® 4449 E, on the other hand, is suitable for adhesive mortars used for exterior insulation and finish systems. The benefits of this product include its ability to form a particularly powerful bond within the layer system, balancing the forces that arise from temperature fluctuations and other influences. In addition to the improvements already mentioned, VINNAPAS® 4449 E also makes the mortar more resistant to abrasion and improves its flexural strength.

The WACKER Academy Forum at ECS 2023

WACKER invites you to attend its topical lecture series at ECS. Experts will be on hand every day at the WACKER Academy Forum (Hall 1, Booth 1-312) between 9:30 a.m. and 5:00 p.m. to discuss the latest product and development trends in the construction, paints, coatings and sealants industries. The recurring theme of the talks will be issues of sustainability. On Tuesday, March 28, at 11:30 a.m., Peter Gigler, head of Corporate Sustainability at WACKER, will be giving a talk entitled “Race to Zero,” in which he will present the

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Group's current sustainability goals. Detailed information on the entire WACKER Academy Forum lecture series is available at www.wacker.com/ecs.

Visit WACKER at the 2023 European Coatings Show in Hall 1, Booth 1-206.



Tile adhesives modified with WACKER's new VINNAPAS® 4419 E and VINNAPAS® 8819 E polymeric binders make it much easier to install large tiles precisely. The chemical group will be unveiling the products at the European Coatings Show in Nuremberg. (Photo: WACKER)



VINNAPAS® 4419 E and VINNAPAS® 8819 E are polymeric binders that improve the wetting properties of tile adhesives, allowing for long correction times. WACKER will be presenting the new products at ECS 2023. (photo: WACKER)






WACKER's VINNAPAS® 4449 E polymeric binder was developed especially for formulating adhesive mortars for exterior insulation and finish systems (EIFS). Benefits of the product include its ability to form exceptionally strong bonds within the layer system and perfectly balance the forces that arise as a result of temperature fluctuations and other influences. WACKER will be unveiling the product at ECS 2023 in Nuremberg. (photo: WACKER)

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 chemical company with some 14,400 employees and annual sales of around €6.21 billion (2021). WACKER has a global network of 27 production sites, 23 technical competence centers and 52 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