

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

PRIMIS®

ARCHITECTURAL COATINGS | POLYMER DISPERSIONS | GREATER CHINA

PRODUCT OVERVIEW

POLYMER CHEMISTRY – A KEY TO QUALITY

Polymer binders enhance two critical characteristics of all mortars and coatings: adhesion and flexibility. They ensure the quality of buildings and prolong their life expectancy while reducing material consumption. At the same time, they increase creative freedom by making it possible to combine a wide variety of construction materials.

Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

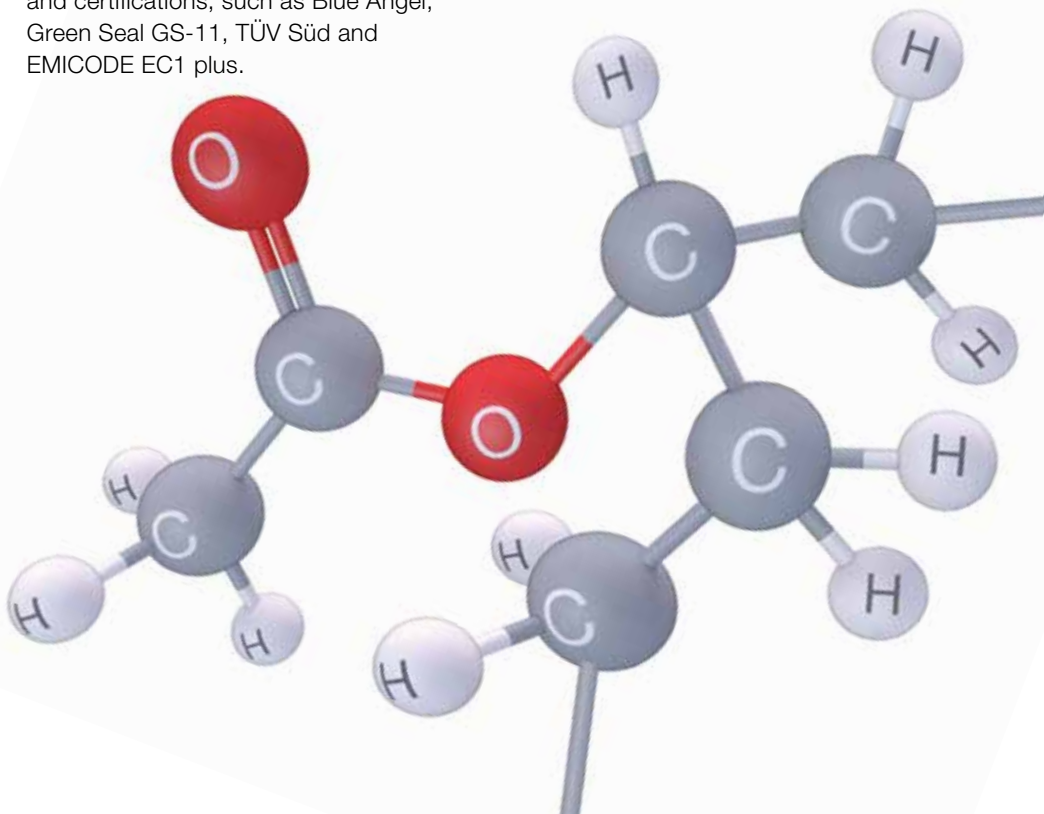
VINNAPAS® dispersions are co- and terpolymers based on vinyl acetate, ethylene and other monomers. Vinyl acetate-ethylene (VAE), in particular, combines technical performance with environmental benefits at an attractive cost-in-use ratio.

VAE dispersions are produced by the emulsion polymerization of the hard, polar monomer vinyl acetate and the soft, hydrophobic monomer ethylene. Ethylene functions as an optimal flexibilizer for vinyl acetate, which incorporating permanent flexibility into VAE polymers. Consequently, the use of plasticizers can be minimized when formulating with VAEs. In addition, all grades are stabilized without the use of APEO-based surfactants, many of them also show low residual monomer content (<500 ppm).

Compliance with Strict Labels

With our cutting-edge VINNAPAS® VAE binders, the construction and paint industries are equipped to meet stringent governmental regulations like Chinese standards HJ2537-2015 (VOC < 50 g/l) and JG/T481-2015 (VOC ≤ 20 g/l). In addition, we meet the requirements of internationally recognized ecolabels and certifications, such as Blue Angel, Green Seal GS-11, TÜV Süd and EMICODE EC1 plus.

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THE FAST TRACK – PRODUCT FINDER

Grade	Typical General Properties ¹							
	Polymer Base ²	Solids Content ±1% ³ [%]	Viscosity, Brookfield [mPa·s]	pH Value	Glass Transition Temperature T _g (DSC) ⁵ [°C]	Minimum Film-Forming Temperature [°C] (ISO 2115) ⁵	Predominant Particle Size ⁵ [µm]	Stabilization System ⁴
VINNAPAS® EF 818	VAc-E	55	150–650	4.0–6.0	7	0	0.22	ST
VINNAPAS® EZ 3011	VAc-E	55	2,700–5,900	4.5–5.5	7	0	0.3	CD & ST
VINNAPAS® EZ 3067	VAc-E	55	2,000–7,000	4.5–5.5	6	1	0.4	CD & ST
PRIMIS® SAF 9000	S-A	42	50–500	6.5–7.5	21	13	< 0.1	ST
PRIMIS® KT 3000	N.A.	17	50–110	11.0–13.0	N.A.	N.A.	N.A.	N.A.

¹ These figures are only intended as a guide and are not part of supply specifications.

² VAc = vinyl acetate

A = acrylate

E = ethylene

S = styrene

³ Residue after drying

⁴ CD = cellulose derivative

ST = surfactant

⁵ Approximately

THE PERFECT FIT – RECOMMENDATION BY APPLICATION

Grade	Recommended Applications							
	Interior Paints				Specialty Paints	Exterior Paints		
	Flat Paints	Silk Paints	Gloss Paints	Pastel or Deep Color Paints	Intumescent Paints	Masonry Paints	Textured Paints	Renders, Plasters, Top Coat for ETICS
VINNAPAS® EF 818	○	●	○					
VINNAPAS® EZ 3011	○	●	○					
VINNAPAS® EZ 3067					●			
PRIMIS® SAF 9000	○	●	●	●				
PRIMIS® KT 3000						●	●	●

● Highly recommended

○ Recommended

Interior Paints

Grade	Product Benefit	Performance Attributes			
		Scrub Resistance	Gloss Development	Block Resistance	Compatibility with Tinting Systems
VINNAPAS® EZ 3011	Premium binder for high-quality, low-odor, low-VOC paints.	○	●	●	●
VINNAPAS® EF 818	Standard binder with excellent abrasive scrub resistance.	○	○	○	●
PRIMIS® SAF 9000	High-performance additive used as a co-binder to increase stain resistance and easy-to-clean properties of interior paints. Compatible with a broad range of main binders.	N.A.	N.A.	N.A.	N.A.

Intumescent Coatings

Grade	Product Benefit	Performance Attributes				
		Foam Development	Foam Stability/ Integrity	Paint Storage Stability under Demanding Conditions	Broad Formulation Ability	Dry Film Thickness (DFT) Efficiency
VINNAPAS® EZ 3067	Standard binder for high-performance intumescent coatings.	○	●	○	○	○

Additives

Grade	Product Benefit
PRIMIS® KT 3000	High-performance additive used to significantly improve early rain resistance in colder climates. Enables final product to be used at temperatures below 6 °C. Compatible with a broad range of main binders.

● Excellent ○ Good

WACKER – WE’RE HERE FOR YOU

Count on Us!

We Give Our Best

Why do something halfheartedly if you can do it right? To us, quality is not about choosing between an expensive or economic solution. VINNAPAS® polymer binders significantly improve the cost-performance ratio of construction materials.

We Act Locally

Topography, climate and culture make architecture local by nature. That is why we are local, too. With sales offices, production sites, technical centers and native experts around the globe, we work globally with customers and authorities to develop local solutions.

We Value Sustainability

In construction, resources are needed for building and maintenance work. Our R&D specialists and application chemists focus on finding answers that conserve resources throughout the entire lifespan of a building.

We Improve Standards

Quality of life should not be a privilege. We strive to develop and enable solutions that are in balance with human, environmental and economic demands.

We Keep Inventing

WACKER is one of the most research-intensive companies in its field. We invite you to challenge us with your questions and ideas.

WACKER is a global chemical company with over 100 years of history and a leading portfolio of solutions for the construction, coatings and paint industries. From our beginnings in Burghausen, Germany, we have been continuously developing for decades to become an active partner across the Asia Pacific region. We maintain a strong production footprint in the region with a plant in Nanjing, China which opened in 2009 and a plant in Ulsan, South Korea that opened in 2008. Beyond production, we have technical centers, who work closely on regional customer specific requirements, placed in Shanghai, Mumbai, Singapore and Seoul.



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