

WACKER

CREATING TOMORROW'S SOLUTIONS

PRIMIS®

VINNAPAS®

CONSTRUCTION | POLYMER DISPERSIONS | EMEA

PRODUCT OVERVIEW POLYMER DISPERSIONS



POLYMER CHEMISTRY – A KEY TO QUALITY

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

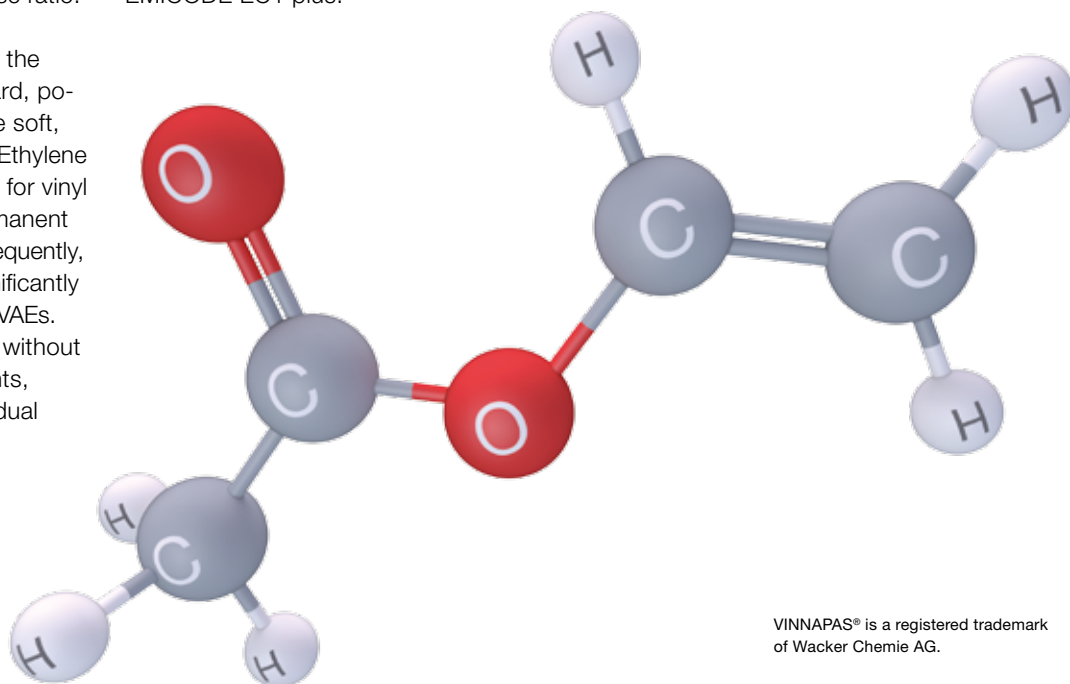
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

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 significantly 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 paints industries are equipped to meet stringent governmental regulations, as well as the requirements of internationally recognized ecolabels and certifications, such as Blue Angel, Green Seal GS-11, TÜV Süd, and EMICODE EC1 plus.



VINNAPAS® is a registered trademark
of Wacker Chemie AG.

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 (ISO 2115) ⁵ [°C]	Predominant Particle Size ⁵ [µm]	Stabilization System ⁴
VINNAPAS® 502 ND	VAc-E	58	500–2,500	3.5–5.0	18	0	0.3–1.0	PVOH
VINNAPAS® 530 ND	VAc-E	55	2,000–2,800	4.0–5.0	6	0	1.0	PVOH
VINNAPAS® 550 ED	VAc-E	53	100–400	3.0–4.5	-5	0	0.9	PVOH
VINNAPAS® EP 523	VAc-E	60	3,000–6,000	4.0–6.0	9	2	0.3	ST
VINNAPAS® EP 3410	VAc-E	55	3,000–5,000	4.0–5.0	5	0	0.8	PVOH & ST
VINNAPAS® CEZ 3031	VAc-E-VC	50	6,000–12,000	4.0–5.0	7	2	0.7	CD & ST
VINNAPAS® 760 ED	VAc-E-VE	59	300–1,500	4.0–5.0	-12	0	0.3	ST
VINNAPAS® EZ 3019	VAc-E-VE	50	2,100–3,900	4.5–5.5	11	2	0.3	CD & ST
VINNAPAS® 825 ED	VC-E-VAc	50	1,500–3,500	4.5–7.5	10	7	0.8	PVOH
VINNAPAS® 822 HD	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	ST
VINNAPAS® 202 HD	S-A	50	1,500–3,500	7.5–8.3	18	23	0.1	ST
VINNAPAS® 224 HD	S-A	50	6,000–12,000	7.5–8.5	20	12	0.1	ST
VINNAPAS® 240 HD	S-A	50	700–3,000	7.0–8.0	0	0	0.1	ST
PRIMIS® SAF 9000	S-A	42	50–500	6.5–7.5	21	13	<0.1	ST
PRIMIS® SAF 9001	S-A	42	30–130	6.5–7.5	10	1	<0.1	ST
PRIMIS® AF 1000	A	42	70–150	8.0–9.0	20	9	<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
VC = vinyl chloride
VE = VERSA® vinyl ester

³ Residue after drying

⁴ PVOH = polyvinyl alcohol
CD = cellulose derivative
ST = surfactant

⁵ Approximately

Grade	Recommended Applications							
	Renders, Plasters, Top Coat for ETICS	Adhesive Mortar and Base Coat for ETICS	Waterproofing Membranes	Tile Adhesives (1K RTU)	Cement Admixtures	Self-Leveling Compounds	Bonding Agents, Primers, Surface Treatment	Joint Compounds
VINNAPAS® 502 ND				●				●
VINNAPAS® 530 ND					●	●	○	
VINNAPAS® 550 ED			●		●		○	●
VINNAPAS® EP 523	○			●				
VINNAPAS® EP 3410								●
VINNAPAS® CEZ 3031	●	●						
VINNAPAS® 760 ED			●		●			
VINNAPAS® EZ 3019	●	●						
VINNAPAS® 825 ED			●		●	●	○	
VINNAPAS® 822 HD	●	●			●			
VINNAPAS® 202 HD	●	●	○	●			●	
VINNAPAS® 224 HD	●	●	○	●			●	
VINNAPAS® 240 HD		○	●	●			●	
PRIMIS® SAF 9000	●						●	
PRIMIS® SAF 9001							●	
PRIMIS® AF 1000	●							
PRIMIS® KT 3000	●							

● Highly recommended

○ Recommended

THE PERFECT FIT – RECOMMENDATION BY APPLICATION

Renders, Plasters, Top Coat for ETICS

Grade	Product Benefit	Performance Attributes					
		Synthetic Resin-Bound Renders	Silicone-Bound Renders	Silicate-Bound Renders	Resistance to Dirt Pick-Up	Color Stability	Durability
VINNAPAS® EP 523	A product with a high cohesive force and versatility.	●	●		○	●	●
VINNAPAS® CEZ 3031	Fire-resistant all-rounder with special rheological qualities.	●	●	●	○	●	○
VINNAPAS® 822 HD	Excellent hydrophobic product with very low flammability.	●	●		●	○	●
VINNAPAS® EZ 3019	Hydrophobic all-rounder with good color stability.	●	●		○	●	●
VINNAPAS® 202 HD	Ammonia-free product.	●	●		●	●	●
VINNAPAS® 224 HD	Proven benchmark for a wide range of applications.	●	●		●	●	●
PRIMIS® AF 1000	Exterior binder with low dirt pick-up and high color stability.	●	●		●	●	●
PRIMIS® SAF 9000	High-performance additive used as a co-binder to reduce snail trails and leeching of water-soluble additives in general. Compatible with a broad range of main binders.	N/A	N/A	N/A	N/A	N/A	N/A
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.	N/A	N/A	N/A	N/A	N/A	N/A

Adhesive Mortar and Base Coat for ETICS

Grade	Product Benefit	Performance Attributes			
		Flame Resistance	Flexibility	Hydrophobicity	Compatibility with Cement
VINNAPAS® 822 HD	Excellent hydrophobic product with high versatility.	●	●	●	●
VINNAPAS® EZ 3019	Hydrophobic binder with special rheological properties.	○	●	○	●
VINNAPAS® CEZ 3031	A proven all-rounder with special rheological qualities.	●	●		●
VINNAPAS® 240 HD	High-performance product with excellent flexibility.		●	●	
VINNAPAS® 202 HD	Hydrophobic product with high adhesive/cohesive strength.		○	●	
VINNAPAS® 224 HD	Product for ready-to-use tile adhesives and embedding mortars.		○	●	

● Excellent ○ Good

Waterproofing Membranes

Grade	Product Benefit	Performance Attributes			
		Dispersion; Liquid-Applied Water- Impermeable Product (EN 14891)	Cement Mortar CM (EN 14891)	Flexibility	Adhesion on Critical (Esp. Organic) Surfaces
VINNAPAS® 240 HD	Optimum binder for flexible ready-to-use waterproofing membranes.	●		●	●
VINNAPAS® 224 HD	Proven benchmark for ready-to-use waterproofing membranes.	●		○	●
VINNAPAS® 202 HD	Product for rigid ready-to-use waterproofing membranes.	○		○	●
VINNAPAS® 760 ED	Highly flexible product with excellent workability and outstanding adhesion properties.		●	●	●
VINNAPAS® 550 ED	Very good combination of excellent compatibility with cement and good flexibility.		●	●	●
VINNAPAS® 825 ED	Improved mechanical strength and abrasion resistance for rigid membranes.		●	○	●

Tile Adhesives (1K RTU)

Grade	Product Benefit	Performance Attributes			
		Class D1 (EN 12004)	Class D2 (EN 12004)	Filler Load	Slip Resistance
VINNAPAS® 224 HD	The proven benchmark for D2 tile adhesives.		●	●	●
VINNAPAS® 202 HD	Ammonia-free product that provides maximum freedom in the choice of coalescing agents.		●	●	●
VINNAPAS® 240 HD	Flexible product for ready-to-use tile adhesives.		●	○	○
VINNAPAS® EP 523	A product with a high cohesive force and versatility.	●		●	○
VINNAPAS® 502 ND	Product with high T _g and excellent filler acceptance.	●		●	○

RTU = ready-to-use, 1K = one-component

● Excellent ○ Good

Cement Admixtures

Grade	Product Benefit	Performance Attributes				
		Flexibility	Adhesion	Hydrophobicity	Elastic Modulus Reduction	Flexural Strength
VINNAPAS® 760 ED	Highly flexible product with excellent cement compatibility and outstanding adhesion properties.	●	●	●	●	●
VINNAPAS® 550 ED	Product with improved flexibility and good mechanical strength.	●	●	○	●	○
VINNAPAS® 530 ND	A product that reduces the elastic modulus and enhances adhesion.	○	●		○	○
VINNAPAS® 822 HD	Excellent hydrophobic product with high versatility.	○	○	●	○	○
VINNAPAS® 825 ED	All-rounder with high mechanical strength.	○	○	○	○	●

Self-Leveling Compounds

Grade	Product Benefit	Performance Attributes		
		Flow Support	Defoaming	Water Resistance
VINNAPAS® 825 ED	Hydrophobic binder for 2K SLC.	○	○	●
VINNAPAS® 530 ND	Performance binder for 2K SLC with excellent mechanical properties.	●	●	○

2K = two-component

Bonding Agents, Primers

Grade	Product Benefit	Performance Attributes				
		Penetration	Surface Consolidation	Adhesion on Critical Substrates	Flexibility	Water Resistance
PRIMIS® SAF 9001	Ultra-high-penetration primer and surface finish with improved hydrophobicity and flexibility.	●	●	●	●	●
PRIMIS® SAF 9000	Ultra-high-penetration primer and surface finish.	●	●	●	○	●
VINNAPAS® 240 HD	High-performance primer with broad utility.	●	●	●	●	●
VINNAPAS® 202 HD	Low-VOC primer that provides maximum freedom in the choice of coalescing agents.	○	●	●	○	●
VINNAPAS® 224 HD	Proven benchmark for primers.	○	●	●	○	●
VINNAPAS® 825 ED	Performance primer with improved cohesion strength.	○	●	○	○	○
VINNAPAS® 530 ND	General primer with good adhesion properties.	○	○	○	○	○
VINNAPAS® 550 ED	Low-viscosity general-purpose primer.		○	●	●	○

● Excellent ○ Good

Surface Treatment

Grade	Product Benefit	Performance Attributes		
		Stain Resistance	Abrasion Resistance	Hydrophobicity
PRIMIS® SAF 9001	Ultra-high penetration for excellent stain resistance and mechanical stability and improved hydrophobicity and flexibility.	●	●	●
PRIMIS® SAF 9000	Ultra-high penetration for outstanding stain resistance and mechanical stability.	○	○	○

Joint Compounds

Grade	Product Benefit	Performance Attributes		
		Adhesion	Workability	Flexibility
VINNAPAS® 550 ED	High-performance, flexible dispersion for gypsum-based joint fillers with excellent adhesion to paper tape.	●	●	●
VINNAPAS® 502 ND	High-T _g product for gypsum-based joint fillers with good adhesion to paper tape and excellent sandability.	●	●	○
VINNAPAS® EP 3410	Medium-T _g product for general joint compounds.	●	●	●

● Excellent ○ Good

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