

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

PRIMIS®

CONSTRUCTION AND PAINTS | POLYMER DISPERSIONS | WESTERN EUROPE

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 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.

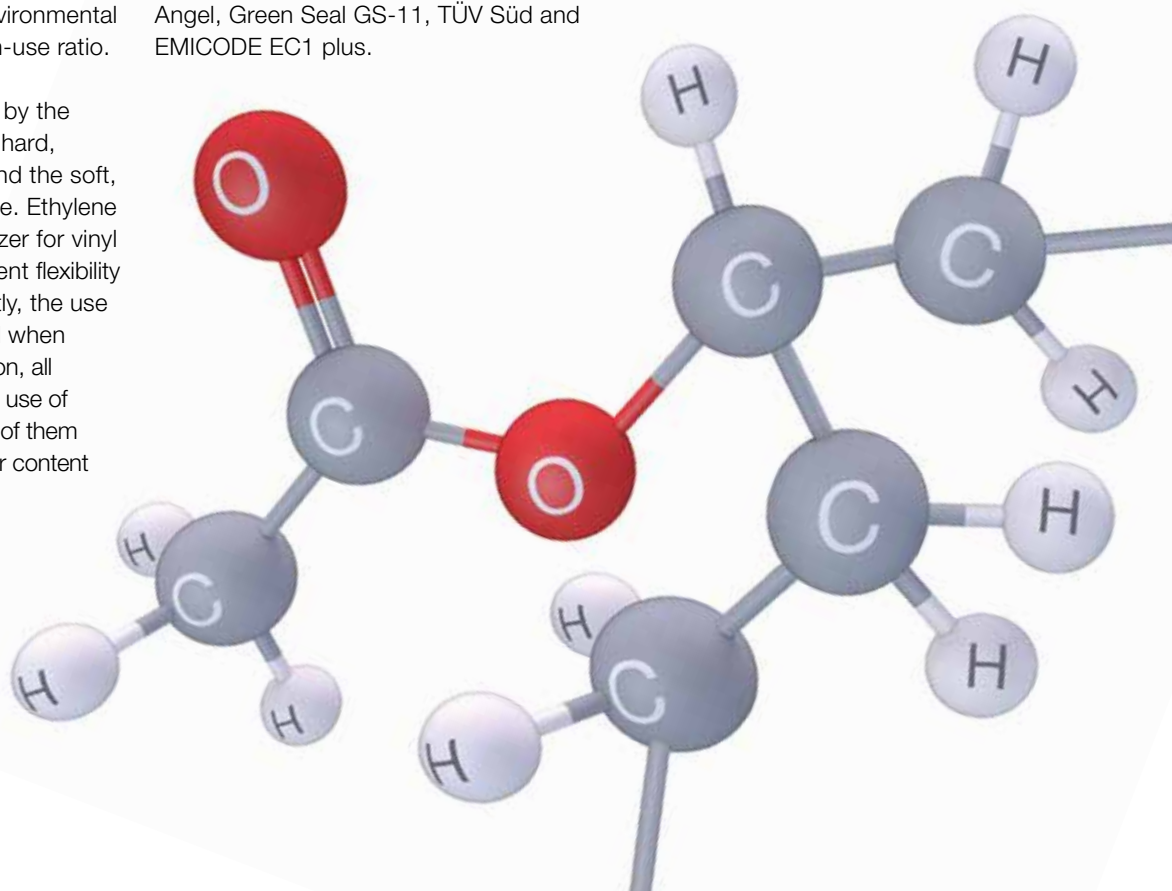
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

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, 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, 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.



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]	Ability to Formulate Solvent and Plasticizer-Free	Stabilization System ⁴
VINNAPAS® 530 ND	VAc-E	55	2,000–2,800	4.0–5.0	6	0	1.0	Yes	PVOH
VINNAPAS® 550 ED	VAc-E	53	100–400	3.0–4.5	-5	0	0.9	Yes	PVOH
VINNAPAS® EF 3777	VAc-E	56	150–1,850	3.5–5.5	10	1	0.2	Yes	ST
VINNAPAS® EP 16	VAc-E	50	6,000–12,000	4.0–5.0	1	0	1.0	Yes	PVOH & ST
VINNAPAS® EP 64	VAc-E	55	2,000–2,800	4.0–5.0	6	0	1.0	Yes	PVOH
VINNAPAS® EP 523	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	PVOH & ST
VINNAPAS® EP 3455	VAc-E	55	1,000–3,000	4.0–6.0	8	0	0.3	Yes	PVOH & ST
VINNAPAS® EP 3360	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	PVOH & ST
VINNAPAS® EP 3560	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	PVOH & ST
VINNAPAS® EZ 3011	VAc-E	55	2,700–5,900	4.5–5.5	7	0	0.4	Yes	CD & ST
VINNAPAS® EZ 3067	VAc-E	55	2,000–7,000	4.5–5.5	6	1	0.3	Yes	CD & ST
VINNAPAS® EAF 380	VAc-E-A	51	600–1,600	7.0–9.0	12	8	0.3	Yes	ST
VINNAPAS® EAF 730	VAc-E-A	53	1,000–6,000	7.5–8.5	3	3	0.2	Yes	ST
VINNAPAS® CEZ 3031	VAc-E-VC	50	6,000–12,000	4.0–5.0	7	2	0.7	Yes	CD & ST
VINNAPAS® EZ 3019	VAc-E-VE	50	2,100–3,900	4.5–5.5	2	2	0.3	Yes	CD & ST
VINNAPAS® EZ 3112	VAc-E-VE	50	1,800–4,000	4.5–5.5	3	0	0.4	Yes	CD & ST
VINNAPAS® 825 ED	VC-E-VAc	50	1,500–3,500	4.5–7.5	10	7	0.8	No	PVOH
VINNAPAS® 822 HD	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	No	ST
VINNAPAS® CEF 52	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	No	ST
VINNAPAS® 202 HD	S-A	50	1,500–3,500	7.5–8.3	18	23	0.1	No	ST
VINNAPAS® 224 HD	S-A	50	6,000–12,000	7.5–8.5	20	12	0.1	No	ST
VINNAPAS® 240 HD	S-A	50	700–3,000	7.0–8.0	0	0	0.1	Yes	ST
VINNAPAS® SAF 34	S-A	50	6,000–12,000	7.5–8.5	20	12	0.1	No	ST
VINNAPAS® SAF 72	S-A	50	1,500–3,500	7.5–8.3	23	23	0.1	No	ST
VINNAPAS® SAF 608	S-A	50	700–3,000	7.0–8.0	0	0	0.1	Yes	ST
PRIMIS® SAF 9000	S-A	42	50–500	6.5–7.5	21	13	<0.1	Yes ⁶	ST
PRIMIS® AF 1000	A	42	110–40	8.0–9.0	20	9	<0.1	No	ST
PRIMIS® KT 3000	N/A	17	50–110	11.0–13.0	N/A	N/A	N/A	Yes ⁶	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

⁶ Depends on main binder

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THE PERFECT FIT – RECOMMENDATION BY APPLICATION

Grade	Product Recommendation									
	Interior Paints					Exterior Paints				
	Flat Paints	Silk Paints	Gloss Paints	Plasters and Textured Paints	Pastel or Deep Color Paints	Masonry Paints	Textured Paints	Elasto-meric/ Crack-Bridging Paints	Silicate Paints	Silicone Resin Emulsion Paints
VINNAPAS® 530 ND										
VINNAPAS® 550 ED										
VINNAPAS® EF 3777	●	●		●	●					
VINNAPAS® EP 16								○		
VINNAPAS® EP 64										
VINNAPAS® EP 523						○	○			●
VINNAPAS® EP 3360	●	○		●	●					
VINNAPAS® EP 3455	●	○		●	●					
VINNAPAS® EP 3560	●	○		●	●	○	○			●
VINNAPAS® EZ 3011	○	●		○	●					
VINNAPAS® EZ 3067										
VINNAPAS® EAF 380	○	●	●	●	●	○	○			
VINNAPAS® EAF 730						●	●			
VINNAPAS® CEZ 3031	●	○		●	●	●	●	●	●	●
VINNAPAS® EZ 3019	○			●	●	●	●	○	●	●
VINNAPAS® EZ 3112										
VINNAPAS® 825 ED										
VINNAPAS® 822 HD										
VINNAPAS® CEF 52						●	●			●
VINNAPAS® 202 HD										
VINNAPAS® 224 HD										
VINNAPAS® 240 HD										
VINNAPAS® SAF 34	○	○	○	○	○	●	●		○	●
VINNAPAS® SAF 72	○	○	○	○	○	●	●		○	●
VINNAPAS® SAF 608	○					○	○	○	○	○
PRIMIS® SAF 9000	○	●	●		●	●	●			
PRIMIS® AF 1000						●	●			●
PRIMIS® KT 3000						●	●			

● Highly recommended ○ Recommended

Pastel or Deep Color Paints	Specialty, Intumescent, Fire-Resistant Paints						Construction Applications		
	Intumescent Paints	Fire-Resistant Paints	Oil-Resistant Paints	Substrate Preparation	Roof Paints	Joint Compounds	Renders, Plasters, Top Coat for ETICS	Adhesive Mortar & Base Coat for ETICS	Primers
									○
									○
●			●						
●						●			
●							●		
●							○	○	●
●	●								
●							●	●	
●		●		○	○		●	●	
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●				○	●			○	●
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Fire-Resistant Paints

Grade	Product Benefit	Performance Attributes		
		Flame Retardancy	Hydrophobicity	Flexibility
VINNAPAS® CEF 52	Excellent inherent fire-resistant properties.	●	●	○
VINNAPAS® CEZ 3031	General-purpose binder with good fire-resistant properties.	●	○	●

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.	○	●	○	○	○
VINNAPAS® EZ 3112	Premium binder that combines maximum performance with an extremely broad range of applications.	●	●	●	●	●

Roof Paints

Grade	Product Benefit	Performance Attributes			
		Flexibility	Water Resistance	Durability	UV Light Resistance
VINNAPAS® SAF 34	Binder for durable, water-resistant roof coatings.	●	●	●	●
VINNAPAS® SAF 72	Plasticizer-free binder for durable, water-resistant roof coatings.	●	●	●	●

Interior Paints

Grade	Product Benefit	Performance Attributes			
		Scrub Resistance	Gloss Development	Block Resistance	Compatibility with Tinting Systems
VINNAPAS® EP 3560	High-end, state-of-the-art interior binder with optimized emissions profile.	●			●
VINNAPAS® EP 3455	Current standard binder for environmentally friendly high-PVC paints.	●			●
VINNAPAS® EP 3360	Excellent scrub resistance and high solids content, supports modern manufacturing processes.	●			●
VINNAPAS® EF 3777	Low blocking in silk paints.	●	○	●	●
VINNAPAS® EZ 3011	Very-low-odor binder that offers a good price/performance ratio.	○	○	●	●
VINNAPAS® CEZ 3031	Broad formulation ability up to high pH values.	○			●
VINNAPAS® EZ 3019	Broad formulation ability up to high pH values, increased hydrophobicity.	○			●
VINNAPAS® EAF 380	Excellent gloss, low blocking and compatible with effect additives.	○	●	●	●
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

● Excellent ○ Good

Exterior Paints

Grade	Product Benefit	Performance Attributes						
		Resistance to Dirt Pick-Up	Hydro-phobicity/ Water Resistance	Flexibility	Color Stability	Alkaline Resistance	Flame Resistance	Durability
PRIMIS® AF 1000	State-of-the-art exterior binder with very low dirt pick-up and very high color stability.	●	●	●	●	●	○	●
VINNAPAS® EAF 730	Advanced binder for exterior paints and plasters with high color stability offering exceptional performance.	●	●	●	●	●		●
VINNAPAS® EZ 3019	Broad formulation ability up to high pH values and suitable for environmentally friendly paints.	○	○	●	●	●		●
VINNAPAS® CEZ 3031	Broad utility binder with excellent color stability.	○	○	●	●	●	●	●
VINNAPAS® CEF 52	Binder for state-of-the-art formulations.	●	●	●	○	●	●	●
VINNAPAS® SAF 34	Breathable in combination with SILRES® for silicone resin emulsion paints.	●	●	○	●	●		●
VINNAPAS® SAF 72	Low-odor and breathable in combination with SILRES® for silicone resin emulsion paints.	●	●	○	●	●		●
VINNAPAS® EP 3560	Entry-level exterior binder with improved efflorescence resistance.	○	○	○	●	○	○	○
VINNAPAS® EP 523	Entry-level exterior binder with very good 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	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	N/A

Joint Compounds

Grade	Product Benefit	Performance Attributes				
		Flexibility	Workability	Compatibility with Final Paint Systems	Broad Formulation Ability	Adhesion
VINNAPAS® EP 64	High suitability for joint compounds.	●	●	●	●	●

● Excellent ○ Good

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® EAF 730	Advanced binder for exterior paints and plasters with high color stability offering exceptional performance.	●	●	●	●	●	●
VINNAPAS® EP 3560	High versatility and good color stability.	○	○		○	●	●
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® EAF 730	Advanced binder offering exceptional performance in multiple applications.	○	●	●	●
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

Oil-Resistant Paints

Grade	Product Benefit	Performance Attributes		
		Barrier Efficiency	Flexibility	Ease of Use
VINNAPAS® EP 16	Excellent oil-barrier properties.	●	●	●

Substrate Preparation

Grade	Product Benefit	Performance Attributes				
		Penetration	Adhesion to Critical Substrates	Flexibility	Water Resistance	Compatibility with Final Paint Systems
VINNAPAS® SAF 608	Binder for surface preparation with excellent penetration and consolidation power.	●	●	●	●	●

Primers

Grade	Product Benefit	Performance Attributes				
		Penetration	Surface Consolidation	Adhesion on Critical Substrates	Flexibility	Water Resistance
PRIMIS® SAF 9000	Ultra-high penetration primer.	●	●	●	○	●
VINNAPAS® 240 HD	High-performance, extremely versatile primer.	●	●	●	●	●
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

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