

WACKER

CREATING TOMORROW'S SOLUTIONS

PRIMIS®

VINNAPAS®



CONSTRUCTION | POLYMER DISPERSIONS | AUSTRALIA, NZ

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.

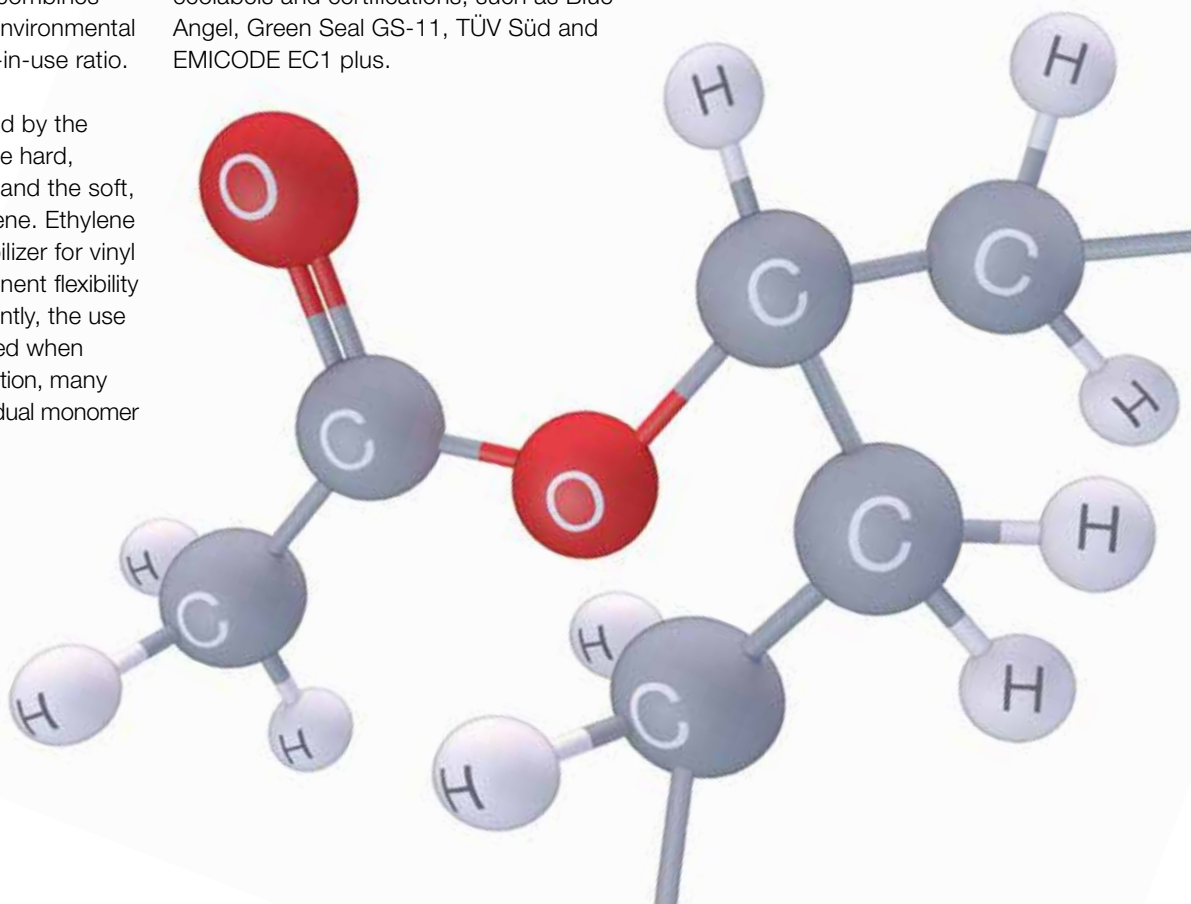
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

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, many of our products 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.



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® 510 ED	VAc-E	55	1,500–2,500	4.0–6.0	19	5	1	PVOH
VINNAPAS® 529 ED	VAc-E	55	2,700–3,700	4.0–6.0	7	0	1	PVOH
VINNAPAS® 536 ED	VAc-E	63	200–800	6.0–7.5	7	0	0.5–1.0	PVOH & ST
VINNAPAS® 540 ED	VAc-E	60.5	2,000–3,000	4.0–6.0	0	0	1	PVOH
VINNAPAS® 544 ND	VAc-E	55	1,900–2,800	4.0–6.0	0	0	1	PVOH
VINNAPAS® 546 ED	VAc-E	55	3,500–4,500	4.0–6.0	0	0	1	PVOH
VINNAPAS® 547 ED	VAc-E	55	1,300–2,000	4.0–6.0	0	0	1	PVOH
VINNAPAS® 548 ND	VAc-E	55	4,400–5,400	4.0–6.0	0	0	1	PVOH
VINNAPAS® 561 ED	VAc-E	55	2,000–4,000	4.0–6.0	-10	0	1	PVOH
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® 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	18	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

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							
	Waterproofing Membranes	Bonding Agents/Primers/Surface Treatment	Skim Coat/ Joint Compounds	Cement Admixtures	Tile Adhesives	Top Coats/Plaster/Render	Adhesives & Base Coats for EIFS	Non-combustible EPS
VINNAPAS® 510 ED			●					
VINNAPAS® 529 ED		●	●	●				
VINNAPAS® 536 ED	●	●		●	●			
VINNAPAS® 540 ED	●							
VINNAPAS® 544 ND				●				
VINNAPAS® 546 ND								●
VINNAPAS® 547 ED	●	●			●		●	○
VINNAPAS® 548 ND				●	●			●
VINNAPAS® 561 ED	●			●			●	
VINNAPAS® 760 ED	●			●				
VINNAPAS® EZ 3019	●					●	●	
VINNAPAS® 822 HD				●		●	●	
VINNAPAS® 202 HD	●				●			
VINNAPAS® 224 HD	●	●			●	●		
VINNAPAS® 240 HD	●	●						
PRIMIS® SAF 9000		●						

● Highly recommended

○ Recommended

THE PERFECT FIT – RECOMMENDATION BY APPLICATION

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® 202 HD	Product for rigid ready-to-use waterproofing membranes.	○		○	●
VINNAPAS® 224 HD	Proven benchmark for ready-to-use waterproofing membranes.	●		○	●
VINNAPAS® 240 HD	Optimum binder for flexible ready-to-use waterproofing membranes.	●		●	●
VINNAPAS® 536 ED	Product for 2K waterproofing membranes with high adhesion.		●		●
VINNAPAS® 540 ED	Product for 2K waterproofing membranes.		●		●
VINNAPAS® 547 ED	Product with lower viscosity for 2K waterproofing membranes.		●		●
VINNAPAS® 561 ED	Product for very flexible 2K waterproofing membranes.		○	●	
VINNAPAS® 760 ED	Highly flexible product with excellent workability and great adhesion properties.		●	●	●
VINNAPAS® EZ 3019	Product for rigid 2K waterproofing membranes.		●		●

Bonding Agents / Primers

Grade	Product Benefit	Performance Attributes				
		Penetration	Surface Consolidation	Adhesion on Critical Substrates	Flexibility	Water Resistance
PRIMIS® SAF 9000	Ultra high penetration primer and surface finish.	●	●	●	○	●
VINNAPAS® 224 HD	Proven benchmark for primers.	○	○	●	○	●
VINNAPAS® 240 HD	High-performance primer with broad utility.	●	○	●	●	●
VINNAPAS® 529 ED	Suitable for cementitious bonding agents.			○		
VINNAPAS® 536 ED	Suitable for cementitious bonding agents.			○		
VINNAPAS® 547 ED	Suitable for cementitious bonding agents.			○		

● Excellent ○ Good

Surface Treatment

Grade	Product Benefit	Performance Attributes		
		Stain Resistance	Abrasion Resistance	Hydrophobicity
PRIMIS® SAF 9000	Ultra high penetration with great stain resistance and mechanical stability.	●	●	●

Skim Coat/Joint Compounds

Grade	Product Benefit	Performance Attributes		
		Adhesion	Workability	Flexibility
VINNAPAS® 510 ED	Around product with strong adhesion and cohesion.	●	○	
VINNAPAS® 529 ED	Around product with high flexibility.	●	○	○

Cement Admixtures

Grade	Product Benefit	Performance Attributes				
		Flexibility	Adhesion	Hydrophobicity	Dilution stability	Flexural Strength
VINNAPAS® 529 ED	Around product with high adhesion.	○	●			●
VINNAPAS® 536 ED	Around product with high adhesion.	○	●			●
VINNAPAS® 544 ND	Around product.	○	●			●
VINNAPAS® 548 ND	Around product with higher viscosity.	○	●			●
VINNAPAS® 561 ED	Highly flexible product.	●	○			○
VINNAPAS® 760 ED	Highly flexible product.	●	○	●	●	○
VINNAPAS® 822 HD	Excellent, hydrophobic product with high versatility.	○	●	●	●	●

● Excellent ○ Good

Tile Adhesives

Grade	Product Benefit	Performance Attributes				
		Class S1/S2 (ISO 13007)	Dilution Stability	Compatibility with Cement	Class D2 (ISO 13007)	Filler Load
VINNAPAS® 202 HD	Ammonia-free product that provides maximum freedom in the choice of coalescing agents.				●	●
VINNAPAS® 224 HD	The proven benchmark for D2 tile adhesives.				●	●
VINNAPAS® 536 ED	Around product with high adhesion.	●		●		
VINNAPAS® 547 ED	Around product with high adhesion.	●		●		
VINNAPAS® 548 ND	Around product with higher viscosity.	●		●		

Top Coats / Plaster / Render

Grade	Product Benefit	Performance Attributes					
		Synthetic Resin-Bound Textures	Silicone-Bound Textures	Silicate-Bound Textures	Resistance to Dirt Pick-Up	Color Stability	Flame retarancy
VINNAPAS® 224 HD	Excellent alround product with high water resistance.	●	●	●	○		
VINNAPAS® 822 HD	Excellent hydrophobic product with very low flammability.	●	●		●	○	●
VINNAPAS® EZ 3019	Hydrophobic alround product with good color stability.	●	●		○	●	

● Excellent ○ Good

Adhesives & Base Coats for EIFS

Grade	Product Benefit	Performance Attributes			
		Flame Resistance	Flexibility	Hydrophobicity	Compatibility with Cement
VINNAPAS® 547 ED	Around product with high adhesion.		○		●
VINNAPAS® 561 ED	Flexible product with high impact resistance.		●		●
VINNAPAS® 822 HD	Excellent hydrophobic product with high versatility.	●	●	●	●
VINNAPAS® EZ 3019	Hydrophobic binder with special rheological properties.	○	○	○	●

Non-Combustible EPS

Grade	Product Benefit	Performance Attributes			
		Bonding with EPS	Char formation	Productivity	Reduction in Heat Emmission
VINNAPAS® 546 ND	High viscosity product exhibiting excellent adhesion to EPS and inorganic flame retardants.	●	●	○	●
VINNAPAS® 547 ND	Medium viscosity product exhibiting good adhesion to EPS and inorganic flame retardants.	○	○	○	●
VINNAPAS® 548 ND	Product with very high viscosity and excellent adhesion to EPS and inorganic flame retardants.	●	●	○	●

● Excellent ○ Good



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