

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

VINNOL®

PRIMIS®

ARCHITECTURAL COATINGS | POLYMER DISPERSIONS | MIDDLE AMERICA

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.

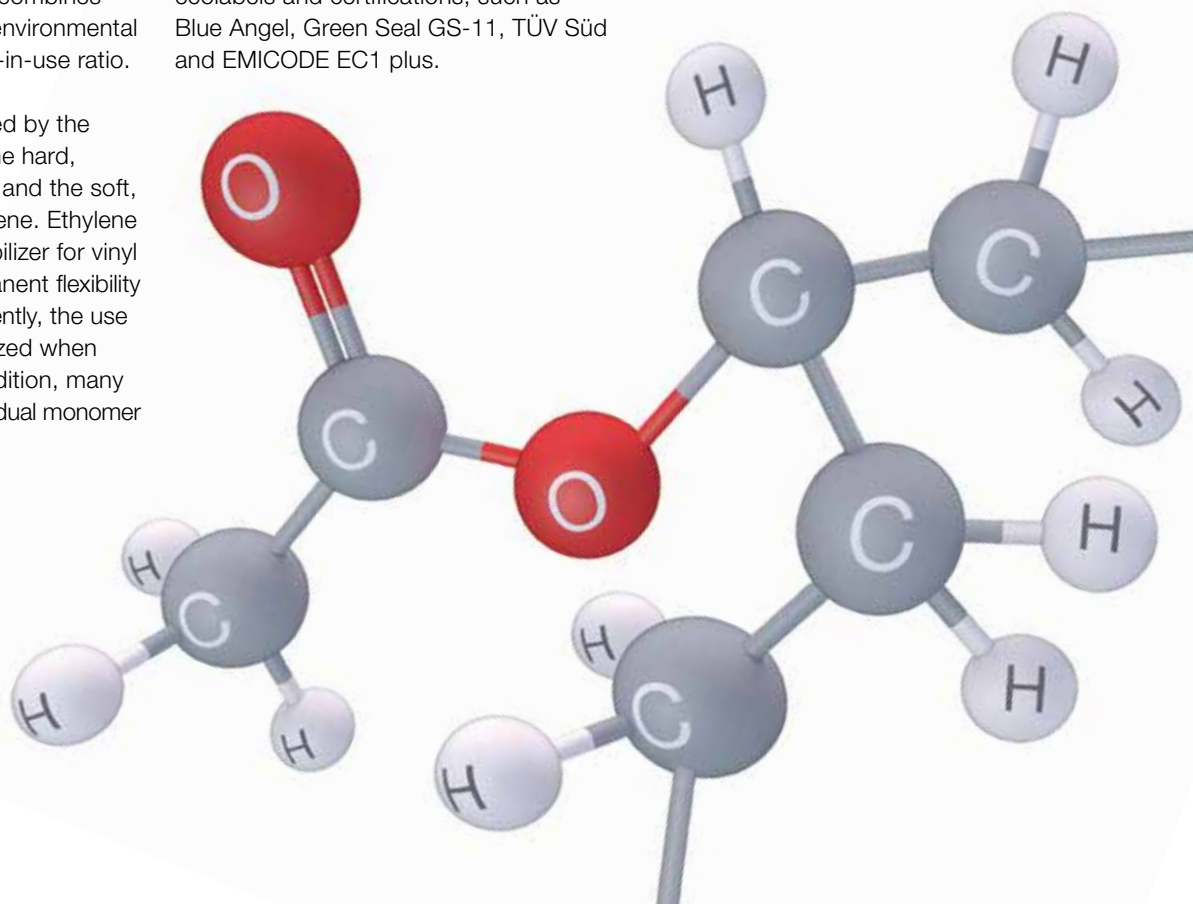
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

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, 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 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]	Produced without APEO	Low-VOC Formulations	Stabilization System ⁴
VINNAPAS® EF 8001*	VAc-E	55	150–650	4.0–5.0	6	0	0.23	Yes	●	ST
VINNAPAS® EF 818**	VAc-E	55	150–650	4.0–6.0	7	0	0.22	Yes	●	ST
VINNAPAS® EP 3360 (ULS)	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	●	PVOH & ST
VINNAPAS® EZ 3067	VAc-E	55	2,000–7,000	4.5–5.5	6	1	0.4	Yes	●	CD & ST
VINNOL® 728	VAc-E-VC	53	100–500	5.0–6.5	0	0	0.17	No	●	ST
VINNAPAS® 3112	VAc-E-VE	50	1,800–4,000	4.5–5.5	3	0	0.4	Yes	●	CD & ST
VINNOL® 4530	E-VC	50	25–500	7.0–9.0	29	34	0.11	Yes		ST
PRIMIS® SAF 9000	S-A	42	50–500	6.5–7.5	21	13	< 0.1	Yes	●	ST
PRIMIS® AF 1000	A	42	70–150	8.0–9.0	20	9	< 0.1	Yes		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

* available in Mexico only
** not available in Mexico

● Highly recommended

THE PERFECT FIT – RECOMMENDATION BY APPLICATION

Grade	Recommended Applications									
	Interior Paints Flat	Interior Paints Satin/Semi-Gloss	Interior Paints High Gloss	Easy-to-Clean Paints	Exterior Paints House & Masonry	Intumescent Coatings	Flame-Retardant Coatings	Primers	Vapor-Barrier Coatings	Roof Coatings
VINNAPAS® EF 8001*	●	○			○			○		
VINNAPAS® EF 818**	●	○			○			○		
VINNAPAS® EP 3360 (ULS)	●	○			●			○		
VINNAPAS® EZ 3067						●				
VINNOL® 728	○				●		○	○	●	●
VINNAPAS® EZ 3112						●				
VINNOL® 4530							●	●	●	
PRIMIS® SAF 9000				●	●			●		
PRIMIS® AF 1000					●					

* available in Mexico only ● Highly recommended ○ Recommended
 ** not available in Mexico

Interior Paints

Grade	Product Benefit	Performance Attributes		
		Scrub Resistance	Gloss Development	Block Resistance
VINNAPAS® EP 3360 (ULS)	Excellent scrub resistance and high solids content, supports modern manufacturing processes.	●	○	○
VINNAPAS® EF 8001 / VINNAPAS® EF 818	Low-VOC, low-odor architectural paint binder, optimal for flat interior paints, also perfect for blending.	●	○	○

Easy-to-Clean Paints

Grade	Product Benefit	Performance Attributes		
		Stain Resistance	Resistance to Dirt Pick-Up	Compatibility with Other Binders
PRIMIS® SAF 9000	High-performance additive used as a co-binder to increase stain resistance and easy-to-clean properties of low to medium PVC interior paints. Compatible with a broad range of main binders.	●	●	●

Exterior Paints

Grade	Product Benefit	Performance Attributes						
		Resistance to Dirt Pick-Up	Hydrophobicity/ Water Resistance	Flexibility	Color Stability	Saponification/ 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.	●	●	●	●	●	○	●
VINNOL® 728	Low-VOC binder for exterior and specialty coatings.	●	●	●	●	●	○	●
VINNAPAS® EP 3360 (ULS)	High solids content product with excellent performance in high PVC paints.	○	○	○	●	●		○
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.

● Excellent ○ Good

Intumescent Coatings

Grade	Product Benefit	Performance Attributes			
		Foam Development	Foam Stability/ Integrity	Paint Storage Stability under Demanding Conditions	Dry Film Thickness (DFT) Efficiency
VINNAPAS® EZ 3112	Premium binder that combines maximum performance with an extremely broad range of applications.	●	●	●	●
VINNAPAS® EZ 3067	Standard binder for high-performance intumescent coatings.	○	●	○	○

Flame-Retardant Coatings

Grade	Product Benefit	Performance Attributes		
		Flame Retardancy	Hydrophobicity	Flexibility
VINNOL® 728	Excellent binder with inherent flame retardancy.	●	●	●

● Excellent ○ Good

The Wacker logo is displayed in a white rectangular box with a black border. The word "WACKER" is written in a bold, black, sans-serif font.

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