

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

PRIMIS®

CONSTRUCTION AND PAINTS | POLYMER DISPERSIONS | MEA

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.

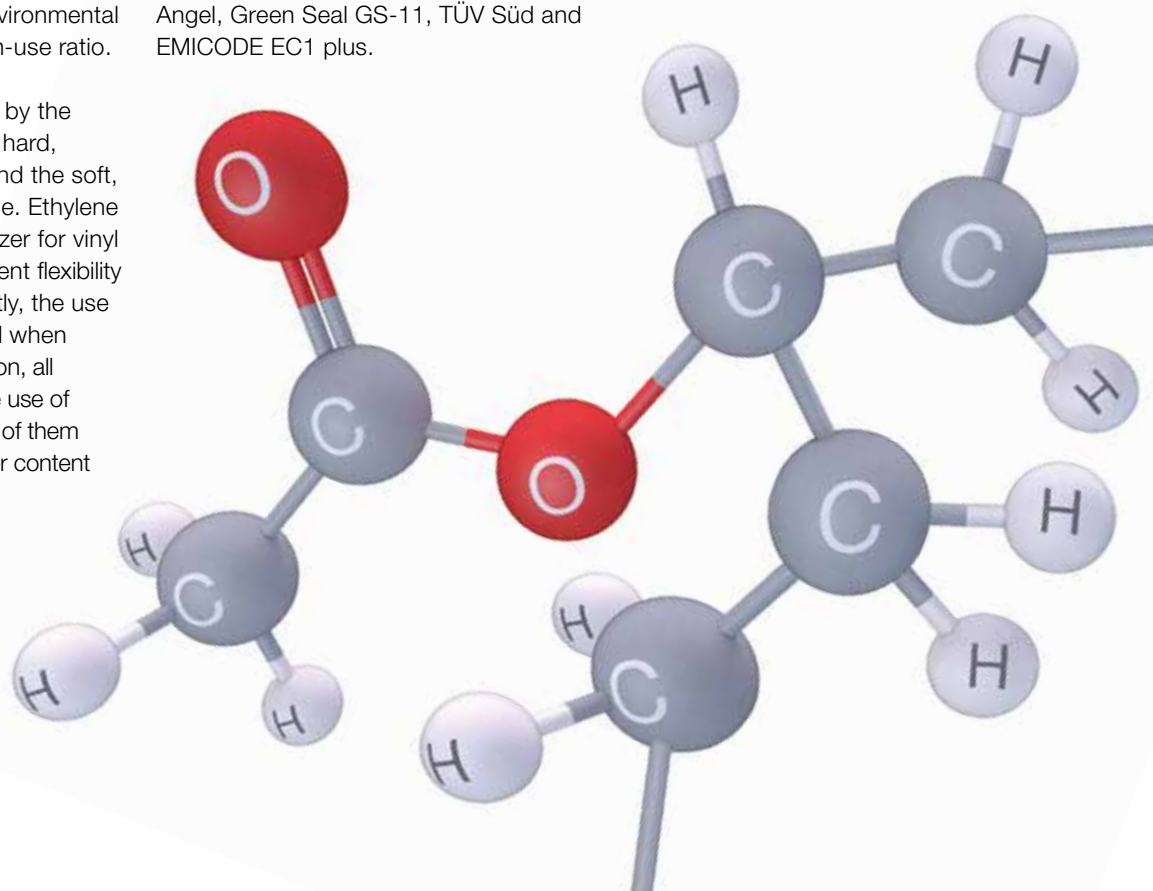
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

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® EF 3818	VAc-E	55	150–650	4.0–6.0	7	0	0.2	Yes	ST
VINNAPAS® EP 523	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	PVOH & ST
VINNAPAS® EP 3355	VAc-E	55	500–2,500	4.0–6.0	10	2	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 3888	VAc-E	50	200–1,200	4.0–6.0	9	2	0.3	Yes	PVOH & ST
VINNAPAS® EP 3410	VAc-E	55	3,000–5,000	4.0–5.0	5	0	0.8	Yes	PVOH & ST
VINNAPAS® EZ 3011	VAc-E	55	2,700–5,900	4.5–5.5	7	0	0.3	Yes	CD & ST
VINNAPAS® EZ 3067	VAc-E	55	2,000–7,000	4.5–5.5	6	1	0.4	Yes	CD & ST
VINNAPAS® EAF 380	VAc-E-A	51	600–1,600	7.0–9.0	12	8	0.3	No	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® CEF 52	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	No	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	70–150	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 Depending on main binder

THE PERFECT FIT – RECOMMENDATION BY APPLICATION

Grade	Recommended Applications																
	Interior Paints					Exterior Paints						Specialty, Intumescent, Fire-Resistant Paints					
	Flat Paints	Silk Paints	Gloss Paints	Plasters and Textured Paints	Pastel or Deep Color Paints	Masonry Paints	Textured Paints	Elastomeric/ Crack-Bridging Paints	Silicate Paints	Silicone Resin Emulsion Paints	Pastel or Deep Color Paints	Intumescent Paints	Fire-Resistant Paints	Oil-Resistant Paints	Substrate Preparation	Roof Paints	Joint Compounds
VINNAPAS® EF 3818	○	●															
VINNAPAS® EP 523						○	○	○		●	●						
VINNAPAS® EP 3355	●	○		●	●												
VINNAPAS® EP 3360	●	○		●	●												
VINNAPAS® EP 3888	●	○		●	●												
VINNAPAS® EP 3410																	●
VINNAPAS® EZ 3011	○	●		○	●							●					
VINNAPAS® EZ 3067																	
VINNAPAS® EAF 380	○	●	●	●	●	○	○				●						
VINNAPAS® CEF 52						●	●			●	●		●		○		
VINNAPAS® CEZ 3031	●	○		●	●	●	●	●	●	●	●		●		○	○	
VINNAPAS® EZ 3019	○			●	●	●	●	○	●	●	●						
VINNAPAS® EZ 3112												●					
PRIMIS® SAF 9000	○	●	●		●	●	●				●						
PRIMIS® AF 1000						●	●			●	●						
PRIMIS® KT 3000						●	●										

● Highly recommended ○ Recommended

Interior Paints

Grade	Product Benefit	Performance Attributes			
		Scrub Resistance	Gloss Development	Block Resistance	Compatibility with Tinting Systems
VINNAPAS® EP 3360	Excellent scrub resistance and high solids content, supports modern manufacturing processes.	●			●
VINNAPAS® EP 3355	Current standard binder for environmentally friendly high-PVC paints.	●			●
VINNAPAS® EF 3818	Low blocking in silk paints.	○	○	●	●
VINNAPAS® EP 3888	Entry-level dispersion for low-VOC 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

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.	●	●	●	●	●	○	●
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® 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 usage 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

● Excellent ○ Good

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.	●	●	●	●	●

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.	○	○	●

Joint Compounds

Grade	Product Benefit	Performance Attributes				
		Flexibility	Workability	Compatibility with Final Paint Systems	Broad Formulation Ability	Adhesion
VINNAPAS® EP 3410	High suitability for joint compounds.	●	●	●	●	●

● Excellent ○ Good

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The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.