

WACKER

CREATING TOMORROW'S SOLUTIONS

GENIOSIL®

PRIMIS®

SILRES®

VINNAPAS®

COATINGS & CONSTRUCTION | WALL SYSTEMS | EUROPE

BUILDING ON POLYMER AND SILICONE CHEMISTRY

PRODUCT OVERVIEW



VINNAPAS®

PRIMIS®

POLYMER BINDERS FOR WALL SYSTEMS

VINNAPAS® AND PRIMIS® POLYMER DISPERSIONS FOR INTERIOR ARCHITECTURAL COATINGS

Grade	Typical general properties ¹									Interior applications			
	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	Matt paints	Satin/silk paints	Ready-to-use plasters & putty	Primer
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	8	2	0.3	Yes	PVOH & ST	●	○	●	●
VINNAPAS® EF 3777	VAc-E	56	150–1,850	3.5–5.5	10	1	0.2	Yes	ST	●	●	○	
VINNAPAS® EZ 3019	VAc-E-VE	50	2,100–3,900	4.5–5.5	3	2	0.3	Yes	CD & ST	○		●	
VINNAPAS® CEZ 3031	VAc-E-VC	50	6,000–12,000	4.0–5.0	7	2	0.7	Yes	CD & ST	○		●	
VINNAPAS® CEF 52	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	No	ST				
VINNAPAS® EAF 380	VAc-E-A	51	600–1,600	7.0–9.0	15	6	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				
PRIMIS® AF 1000	A	42	30–170	8.0–9.0	20	9	<0.1	No	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			○	●

● Highly recommended ○ Recommended

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

VINNAPAS® AND PRIMIS® POLYMER DISPERSIONS FOR EXTERIOR ARCHITECTURAL COATINGS

Grade	Typical general properties ¹									Exterior applications							Grade
	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	Masonry paints	Ready-to-use plasters & renders	Silicone resin paints & plasters	Silicate paints & plasters	Elastomeric/ crack-bridging paints	Ready-to-use adhesive and reinforcement base coat for ETICS	Primer	
VINNAPAS® EP 3360	VAc-E	60	3,000–6,000	4.0–6.0	10	2	0.3	Yes	PVOH & ST	○	○	●			○		VINNAPAS® EP 3360
VINNAPAS® EP 3888	VAc-E	50	200–1,200	4.0–6.0	8	2	0.3	Yes	PVOH & ST	○	○	●			○		VINNAPAS® EP 3888
VINNAPAS® EZ 3019	VAc-E-VE	50	2,100–3,900	4.5–5.5	3	2	0.3	Yes	CD & ST		○	○	●	○	○		VINNAPAS® EZ 3019
VINNAPAS® CEZ 3031	VAc-E-VC	50	6,000–12,000	4.0–5.0	7	2	0.7	Yes	CD & ST	○	○	●	●	●	○		VINNAPAS® CEZ 3031
VINNAPAS® CEF 52	VC-E-VE	60	3,000–8,000	7.0–9.0	14	7	0.3	No	ST	●	●	●	●		●		VINNAPAS® CEF 52
VINNAPAS® EAF 380	VAc-E-A	51	600–1,600	7.0–9.0	15	6	0.3	Yes	ST	●	●	●	●		○		VINNAPAS® EAF 380
VINNAPAS® EAF 730	VAc-E-A	53	1,000–6,000	7.5–8.5	3	3	0.2	Yes	ST	●	●	●	●		●		VINNAPAS® EAF 730
PRIMIS® AF 1000	A	42	30–170	8.0–9.0	20	9	<0.1	No	ST	●							PRIMIS® AF 1000
VINNAPAS® SAF 34	S-A	50	6,000–12,000	7.5–8.5	20	12	0.1	No	ST	○	○	○	○			●	VINNAPAS® SAF 34
VINNAPAS® SAF 72	S-A	50	1,500–3,500	7.5–8.3	23	23	0.1	No	ST	○	○	○	○			●	VINNAPAS® SAF 72
VINNAPAS® SAF 608	S-A	50	700–3,000	7.0–8.0	0	0	0.1	Yes	ST	○	○	○	○	○	○	●	VINNAPAS® SAF 608

● Highly recommended ○ Recommended

¹ These figures are only intended as a guide and are not part of supply specifications.

² VAc = vinyl acetateA = acrylateE = ethyleneS = styreneVC = vinyl chlorideVE = VERSA® vinyl ester

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⁵ Approximately



VINNAPAS® DISPERSIBLE POLYMER POWDERS FOR WALL AND JOINT FILLERS

Wall and joint fillers

Grade	Typical general properties			Product benefit	Performance attributes	
Product name	Polymer base	Flexibility	MFFT (ISO 2115) [°C]		Thixotropy	Workability
Neutral						
VINNAPAS® 4121 N	VAc-E	Semi-flexible	4	Very good tensile adhesion strength on all surfaces and good workability.	○	● ● ●
VINNAPAS® 5010 N	VAc-E	Hard	4	Provides good flexibility and excellent adhesion to paper band.	○	● ● ●
VINNAPAS® 5044 N	VAc-E	Very flexible	0	Provides excellent flexibility.	○	● ● ●
Enhanced						
VINNAPAS® 4419 E	VAc-E	Hard	4	Very good tensile adhesion strength on all surfaces in combination with improved consistency and troweling properties of the fresh mortar.	○	● ● ●
Thixotropic						
VINNAPAS® 5012 T	VAc-E	Hard	4	Thixotropic, very good workability and very good tensile adhesion strength.	● ●	● ● ●
VINNAPAS® 5021 T	VAc-E	Semi-flexible	4	Thixotropic, very good workability, long open time and good tensile adhesion strength.	● ●	● ● ●
VINNAPAS® 5046 T	VAc-E	Very flexible	0	Strongly thixotropic, very good workability.	● ● ●	● ● ●

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral

N

VINNAPAS® N class – neutral effect on rheology

These products provide a high degree of freedom in developing formulations and are ideal for various applications.

T

VINNAPAS® T class – thixotropic expertise

These products are used in thixotropic tileadhesives and in troweling compounds.

E

VINNAPAS® E class – enhanced properties

These products have enhanced properties in a number of applications and improve essential characteristics. They ensure improved workability, increased adhesion or water resistance, to name just a few

L

VINNAPAS® L class – leveling optimization

These products create smooth surfaces by displaying excellent leveling properties. They are therefore ideal for self-leveling compounds.

H

VINNAPAS® H class – hydrophobic excellence

These products have remarkable hydro-phobic properties, making them ideal for all types of plasters and tile grouts as well as for ETICS (external thermal insulation composite systems).

F

VINNAPAS® F class – flow superiority

These products provide excellent flow properties without the need for any additional synthetic superplasticizers or casein. They are therefore ideal for self-leveling compounds that require an instant liquefying effect and a special rheology.

VINNAPAS® DISPERSIBLE POLYMER POWDERS FOR ETICS

ETICS

Grade	Typical general properties			Product benefit	Performance attributes		
Product name	Polymer base	Flexibility	MFFT (ISO 2115) [°C]		Tensile adhesion strength	Impact resistance	Hydrophobicity
Neutral							
VINNAPAS® 4023 N	VAc-E	Flexible	4	Very good tensile adhesion strength particularly on organic surfaces, high impact strength and good workability.	● ● ●	● ●	○
VINNAPAS® 4121 N	VAc-E	Semi-flexible	4	Very good tensile adhesion strength particularly on organic surfaces, good impact strength and good workability.	● ● ●	●	○
VINNAPAS® 4240 N	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces and high impact strength.	● ● ●	● ●	○
VINNAPAS® 5043 N	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces, very high impact strength and good workability.	● ● ●	● ● ●	○
VINNAPAS® 5044 N	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces, very high impact strength and very good workability – versatile use in all ETICS formulations.	● ● ●	● ● ●	○
Enhanced							
VINNAPAS® 4449 E*	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces, very high impact strength in combination with improved consistency and troweling properties of the fresh mortar.	● ● ●	● ● ●	○
VINNAPAS® 5042 E	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces, very high impact strength and good workability.	● ● ●	● ● ●	○
VINNAPAS® 5545 E	VAc-E	Very flexible	0	Very good tensile adhesion strength particularly on organic surfaces, very high impact strength and good workability.	● ● ●	● ● ●	○
Hydrophobic							
VINNAPAS® 4042 H	VAc-E	Very flexible	0	Medium hydrophobic effect, very good tensile adhesion strength particularly on organic surfaces and very high impact strength.	● ● ●	● ● ●	● ●
VINNAPAS® 4141 H	VAc-E	Very flexible	0	Slight hydrophobic effect, very good tensile adhesion strength particularly on organic surfaces and very high impact strength.	● ● ●	● ● ●	●
VINNAPAS® 5048 H	VAc-E	Very flexible	0	Strong hydrophobic effect, very good tensile adhesion strength particularly on organic surfaces and very high impact strength.	● ● ●	● ● ●	● ● ●
VINNAPAS® 7025 H	VAc-VC-E	Very flexible	0	Strong hydrophobic effect, good tensile adhesion strength particularly on organic surfaces and very high impact strength.	● ● ●	● ● ●	● ● ●

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral

VINNAPAS® DISPERSIBLE POLYMER POWDERS FOR RENDERS AND PLASTERS

Renders and plasters

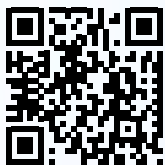
Grade	Typical general properties			Product benefit	Performance attributes	
Product name	Polymer base	Flexibility	MFFT (ISO 2115) [°C]		Tensile adhesion strength	Hydrophobicity
Neutral						
VINNAPAS® 5010 N	VAc-E	Hard	4	Very good tensile adhesion strength on inorganic surfaces and good workability.	● ● ●	○
Enhanced						
VINNAPAS® 4419 E*	VAc-E	Hard	4	Very good tensile adhesion strength on inorganic surfaces aging in combination with improved consistency and troweling properties of the fresh mortar.	● ● ●	○
VINNAPAS® 7034 E	VAc-E-others	Flexible	0	Excellent workability and very good tensile adhesion strength.	● ● ●	●
Hydrophobic						
VINNAPAS® 4042 H	VAc-E	Very flexible	0	Hydrophobic effect, good workability and very good tensile adhesion strength.	● ● ●	● ●
VINNAPAS® 5048 H	VAc-E	Very flexible	0	Strong hydrophobic effect and very good tensile adhesion strength.	● ● ●	● ● ●
VINNAPAS® 5518 H	VAc-E	Hard	4	Hydrophobic effect, very good workability and very good tensile adhesion strength.	● ● ●	●
VINNAPAS® 7025 H	VAc-VC-E	Very flexible	0	Hydrophobic effect, good workability and very good tensile adhesion strength.	● ● ●	● ●
VINNAPAS® 7031 H	VAc-E-others	Flexible	0	Hydrophobic effect, very good workability and very good tensile adhesion strength.	● ● ●	●
VINNAPAS® 8031 H	VAc-E-others	Flexible	0	Medium hydrophobic effect, good workability and very good tensile adhesion strength.	● ● ●	● ●
VINNAPAS® 8034 H	VAc-E-others	Flexible	0	Strong hydrophobic effect, good workability and very good tensile adhesion strength.	● ● ●	● ● ●
Thixotropic						
VINNAPAS® 5012 T	VAc-E	Hard	4	Thixotropic, very good tensile adhesion strength and very good workability.	● ● ●	○

Based on WACKER guide formulation: ● ● ● Excellent ● ● Very Good ● Good ○ Neutral

* The product is in the operational launch phase (scale-up product). The product data are therefore subject to change. Please clarify with WACKER prior to industrial use.

DISCOVER OUR VINNAPAS® eco GRADES!

The majority of VINNAPAS® grades that contain vinyl acetate can be certified as VINNAPAS® eco according to the mass balance approach. For more information on the mass balance approach and available VINNAPAS® eco grades, please visit our website.



www.wacker.com/vinnapas-eco





GENIOSIL®

SILRES®

SILICONES AND SILANES FOR WALL SYSTEM

SILRES® BS

DECORATIVE COATINGS

Decorative coatings paints and plasters								
Product	SILRES® BS 54	SILRES® BS 60	SILRES® BS 6042	SILRES® BS 1306	SILRES® BS 1346	SILRES® BS 1310	SILRES® BS 333	SILRES® BS 338
Product group	Silicone resin emulsions	Silicone resin emulsions	Modified silicone resin emulsions	Polysiloxane / functional silicone resin emulsions	Reactive polysiloxane emulsions	Polysiloxane / functional silicone resin emulsions	Reactive polysiloxane emulsions	Reactive polysiloxane emulsions
Applications								
Silicone resin emulsion paints and plasters – SREP®	•••	•••	•••	•••	•••	•••		
Silicate emulsion paints and plasters					•••		••	•••
High-PVC emulsion paints	•••	•••	•••	•••	•••	•••	•••	•••
Medium-PVC emulsion paints	••	••	••	••	•••	••	•••	•••
Lime paints (whitewash paints)				••	•••	•	••	••
Top coats for ETICS	•••	•••	•••	•••	•••	•••		
Pronounced water-beading effect in paints and plasters				••	•••			
Interior paints and plasters (stain-resistant, low VOC)					••		•••	•••
Properties								
Solid content [%]	57	60	54	55	55	50	50	50
pH approx. [-]	5	7	5	6 – 7	7 – 8	6 – 7	7 – 8	5 – 6

Primers			
Product	SILRES® BS 1001	SILRES® BS 3003	SILRES® BS 290
Product group	Silane / siloxane emulsions	Silane / siloxane emulsions	Silane / siloxane
Applications			
Waterborne primers	••	•••	
Waterborne emulsion primers	••		
Solventborne primers			•••
Properties			
Active content [%]	50	60	100

Suitable • Recommended •• Highly recommended •••

Powders			
Product	SILRES® POWDER A	SILRES® POWDER D	SILRES® POWDER E
Product group	Silane on carrier	Encapsulated functional silane	Encapsulated functional silane
Applications			
Grouts for tiles and stones	••	•••	•••
Stuccos and plasters	•••	••	•••
Thick-layer plasters (monocouche/monocapa)	••	•••	•••
In bulk hydrophobic mineral-based systems	•••	•••	•••
On surface hydrophobic mineral-based systems	••	••	•••
Properties			
Active content [%]	50	35	65

SILRES® BS

FACADE IMPREGNATION

Facade impregnation							
	Water-based					Solvent-dilutable	
Product	SILRES® BS 1001	SILRES® BS 3003	SILRES® BS 4004	SILRES® BS CREME F	SILRES® BS SMK 1311	SILRES® BS 290 CF	SILRES® BS 280 CF
Product group	Silane / siloxane emulsions	Silane / siloxane emulsions	Silane / siloxane emulsions	Silane / siloxane cream	Silane / siloxane microemulsion concentrate	Catalyst free silane / siloxane concentrates	Catalyst free silane / siloxane concentrates
Main advantage	High compatibility with polymer dispersions	Very stable in dilution & concentrate	Outstanding beading effects	Single-step application, ready-to-use	Offering for professional applicators	Well-known, solvent-dilutable all-rounder	Specialty for lime-based natural stone
Applications							
Water repellent top coats by roller, brush or low-pressure equipment							
Brick, clinker	••	•••	•••	•••	•••	•••	••
Mortar, grout	••	•••	•••	•••	•••	•••	••
Sand-lime brick	•••	•••	•••	•••	•••	•••	•••
Sandstone	•	••	•••	•••	•••	•••	•••
Limestone, marble				•	•	•	•••
Granite	•	•	•	••	•	••	••
Mineral plaster	••	••	•••	•••	••	•••	•••
Properties							
Active ingredient [%]	50	60	50	25	100	100	100

Suitable • Recommended •• Highly recommended •••



SILRES® BS

CONCRETE SURFACE PROTECTION

	SILRES® BS				GENIOSIL®		
	CREME C	1701 SQ	1701	17040	NOTE CE	NOTE	IBTE CE
Product group	Silane cream	Silane	Silane	Silane emulsion	Silane	Silane	Silane
Basis	Isooctyltriethoxysilane	Isooctyltriethoxysilane	Isooctyltriethoxysilane	Isooctyltriethoxysilane	n-Octyltriethoxysilane	n-Octyltriethoxysilane	Isooctyltriethoxysilane
Appearance	White to yellowish cream	Clear, colorless	Clear, colorless	Milky, white	Clear, colorless	Clear, colorless	Clear, colorless
Active content [%, approx.]	80	> 99	> 99	40	> 96	> 96	> 98
Flash point [°C]	64	65	42	70	65	65	61
Certified to EN 1504-2	Yes	Yes	Yes	Yes	Yes	No	Yes
Workability	••• (loss free/one step)	••	••	•	••	••	••

Suitable • Recommended •• Highly recommended •••



SILRES® BS

ANTI-STAIN, COLOR-ENHANCING AND ANTI-GRAFFITI

Surface treatment		
	Anti-stain and color enhancement	Anti-graffiti
Product	SILRES® BS 30	SILRES® BS 710
Product group	Silane / siloxane concentrates	Silicone elastomers
Main advantage	Improvement of surface appearance	Permanent 1K coating, free of oxime and tin
Applications		
Water-repellent top coats by roller, brush or low pressure equipment		
Protection against water- and oil based stains	•••	•
Color enhancement	•••	•
Anti-graffiti		•••

Suitable • Recommended •• Highly recommended •••



CREATING TOMORROW'S SOLUTIONS

A diverse array of products for growing markets

Our product portfolio ranges from silicones, binders and polymeric additives all the way up to bioengineered pharmaceutical actives. Rounding these out is hyperpure silicon for semiconductors and solar applications.

Innovations that improve quality of life

Resource scarcity, climate change, urbanization: the challenges of our time demand new responses. In our search for solutions, we invest some 3.5% of our annual sales in research and development. With their emphasis on using energy efficiently and protecting the climate and our environment, our products are already improving quality of life for people all over the world.

Global knowledge for local markets

When you work with WACKER, you have 100 years of chemistry expertise at your disposal, with access to the research findings and best practices of our experts throughout the world. Our knowledge base consists of a network of 22 technical centers, 14 training centers and our basic research center.

And most importantly: we are there wherever you need us – worldwide. Our local specialists know your markets and speak your language. Working with them, you will find innovative solutions that win over your customers and make you more competitive.

Follow us:

Find us on LinkedIn, YouTube and Instagram, where we'll keep you up to date on the latest and discuss current issues with you.



All figures are based on fiscal 2023.



Silicones and polymers

3,200 specialty products from organic and inorganic chemistry



Global market leader

In dispersions and dispersible polymer powders based on vinyl acetate-ethylene (VAE), in building-protection silicones and in the production of cyclodextrin and cystein.



Globally active

- Sites worldwide
- Headquartered in Munich
- 27 production sites in Europe, Asia and the Americas
- 22 technical centers
- 14 WACKER ACADEMY training centers
- 48 sales offices



Employees: 16,400



Total sales

€6.4 billion



WACKER

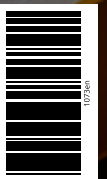
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1073en/02.26 replaces 1073en/06.25