



CONSTRUCTION | POLYMER POWDERS & DISPERSIONS | MEA

PRODUCT OVERVIEW VINNAPAS[®] POLYMER BINDERS



POLYMER CHEMISTRY – A KEY TO QUALITY

Polymer binders have revolutionized the construction and paint industry more than once. WACKER has been a key player in this development. [Show Milestones](#)

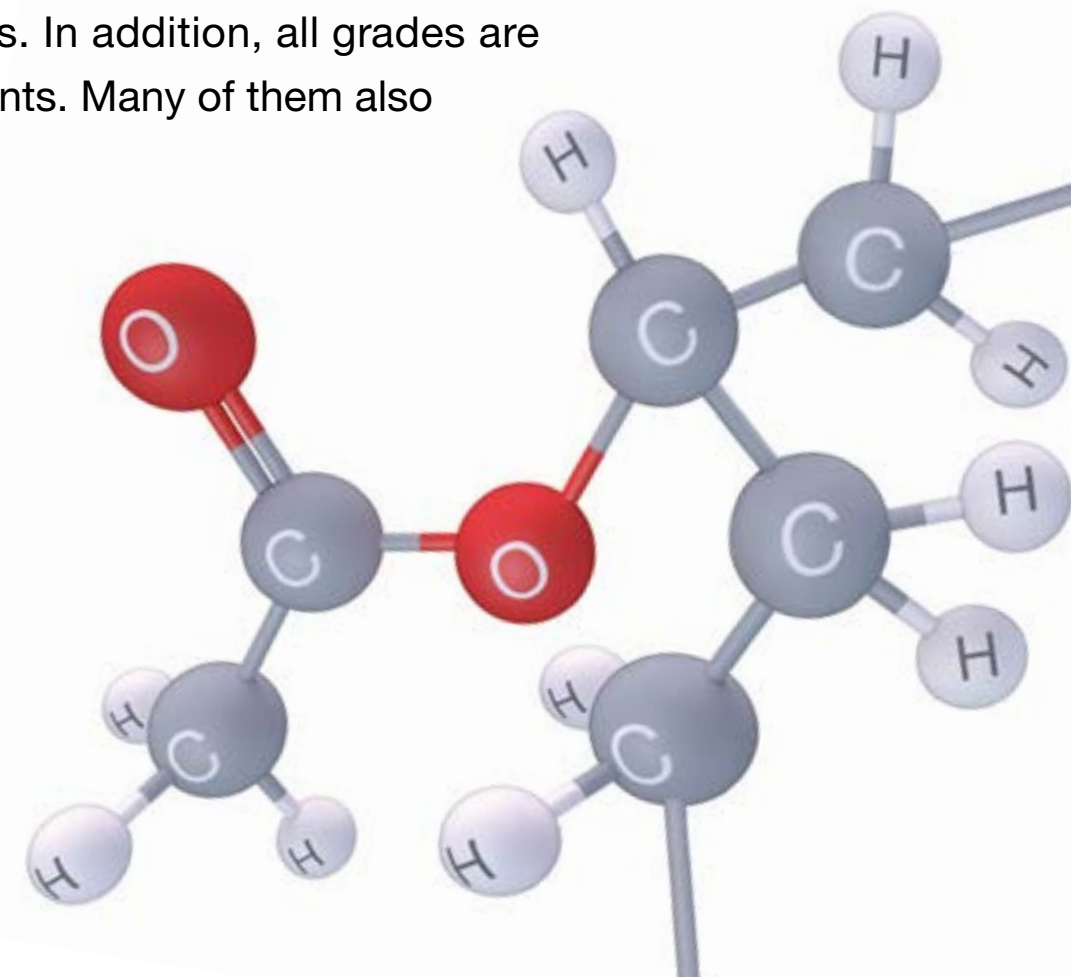
Vinyl Acetate-Ethylene (VAE) – Serving the Megatrends of Today and Tomorrow

VINNAPAS® polymer binders 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 formulations contain 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](#)

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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.



The Fast Track:

PRODUCT FINDER DISPERSIBLE POLYMER POWDERS

| Typical General Properties | | | Grade | Recommended Applications | | | | | | | |
|----------------------------|-----------------|----------------------|------------------|--------------------------|-------------|-------------------------|------------------------|-----------------|-------|-------------------------|----------------------|
| Polymer Base | Flexibility | MFFT (ISO 2115) [°C] | Product Name | Tile Adhesives | Tile Grouts | Self-Leveling Compounds | Wall and Joint Fillers | Concrete Repair | ETICS | Waterproofing Membranes | Renders and Plasters |
| Neutral | | | | | | | | | | | |
| VAc-E | Semi-flexible | 1 | VINNAPAS® 4023 N | ●● | | | ● | | ●● | | |
| VAc-E | Semi-flexible | 0 | VINNAPAS® 4240 N | ●● | | | | | ●● | | |
| VAc-E | Hard | 4 | VINNAPAS® 5010 N | ●● | ●● | | ●● | | | | ●● |
| VAc-E | Very flexible | 0 | VINNAPAS® 5043 N | | | | | | ●● | | |
| VAc-E | Very flexible | 0 | VINNAPAS® 5044 N | | | | ●● | ●● | ●● | ●● | |
| Enhanced | | | | | | | | | | | |
| VAc-E | Very flexible | 0 | VINNAPAS® 4040 E | | ● | | | | ● | ●● | ● |
| VAc-E | Semi-flexible | 4 | VINNAPAS® 5028 E | ●● | | | | | | | |
| VAc-E-others | Flexible | 0 | VINNAPAS® 7034 E | ● | ● | | ● | ●● | ● | | ●● |
| VAc-E-others | Highly flexible | 0 | VINNAPAS® 7055 E | | | | | ● | ● | ●● | |
| VAc-E-others | Hard | 7 | VINNAPAS® 7210 E | ●● | ● | | | | ● | | ● |
| VAc-E-others | Semi-flexible | 5 | VINNAPAS® 7220 E | ●● | ● | | | | | | ● |
| VAc/E/MMA | Semi-flexible | 1 | VINNAPAS® 7410 E | ●● | | | | | | | |
| Hydrophobic | | | | | | | | | | | |
| VC-E | Flexible | 0 | VINNAPAS® 3030 H | | ●● | | | | | | ● |
| VAc-E | Very flexible | 0 | VINNAPAS® 4042 H | | | | | | ●● | ●● | ● |
| VAc-E | Very flexible | 0 | VINNAPAS® 5048 H | | | | | | ●● | ●● | ●● |
| VAc-E | Hard | 4 | VINNAPAS® 5518 H | | ●● | | | | | ●● | ●● |
| VAc-E-others | Flexible | 0 | VINNAPAS® 7031 H | | ●● | | ●● | ● | ● | ● | ●● |
| VC-E-others | Flexible | 0 | VINNAPAS® 8031 H | | ●● | | | | | ● | ● |
| VC-E-others | Flexible | 0 | VINNAPAS® 8034 H | | ●● | | | | ● | ● | ●● |

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.

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.

H **VINNAPAS® H Class – Hydrophobic Excellence**
 These products have remarkable hydrophobic properties, making them ideal for all types of plasters and tile grouts as well as for ETICS (external thermal insulation composite systems).

Recommended Applications: ●● Highly recommended ● Recommended



The Fast Track:

PRODUCT FINDER DISPERSIBLE POLYMER POWDERS

| Typical General Properties | | | Grade | Recommended Applications | | | | | | | |
|----------------------------|---------------|----------------------|------------------|--------------------------|-------------|-------------------------|------------------------|-----------------|-------|-------------------------|----------------------|
| Polymer Base | Flexibility | MFFT (ISO 2115) [°C] | Product Name | Tile Adhesives | Tile Grouts | Self-Leveling Compounds | Wall and Joint Fillers | Concrete Repair | ETICS | Waterproofing Membranes | Renders and Plasters |
| Thixotropic | | | | | | | | | | | |
| VAc-E | Hard | 4 | VINNAPAS® 5012 T | ●● | | | ●● | | | | |
| VAc-E | Semi-flexible | 4 | VINNAPAS® 5021 T | ●● | | | ●● | | | | |
| VAc-E | Very flexible | 0 | VINNAPAS® 5046 T | | | | ●● | | ● | | |
| Leveling | | | | | | | | | | | |
| VAc-E | Semi-flexible | 1 | VINNAPAS® 4220 L | | | ●● | | | | | |
| VAc-E | Hard | 4 | VINNAPAS® 4410 L | | | ●● | | | | | |
| VAc-E | Semi-flexible | 4 | VINNAPAS® 5023 L | | | ●● | | | | | |
| VAc-E | Semi-flexible | 4 | VINNAPAS® 5025 L | | | ●● | | | | | |
| VAc-E | Hard | 4 | VINNAPAS® 5111 L | | | ●● | | | | | |
| VAc-E | Semi-flexible | 4 | VINNAPAS® 5222 L | | | ●● | | | | | |
| Flow | | | | | | | | | | | |
| VAc-E | Hard | 4 | VINNAPAS® 5014 F | | | ●● | | | | | |
| VAc-E-MMA | Hard | 7 | VINNAPAS® 7016 F | | | ●● | | | | | |

T **VINNAPAS® T Class – Thixotropic Expertise**
 These products are used in thixotropic tile adhesives and in troweling compounds.

L **VINNAPAS® L Class – Leveling Optimization**
 These products create smooth surfaces by displaying excellent leveling properties. They are therefore ideal for self-leveling compounds.

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.

Recommended Applications: ●● Highly recommended ● Recommended



The Fast Track:

PRODUCT FINDER POLYMER DISPERSIONS

| Typical General Properties | | | | | | | | Grade | Recommended Applications | | | | | | | |
|----------------------------|------------------------|-------------------------------|----------|--|--|--------------------------------|----------------------|------------------|--|--|--------------------------------|--------------------------------|-------------------------------|--------------------------------|---|------------------------|
| Polymer Base | Solids Content ±1% [%] | Viscosity, Brookfield [mPa·s] | pH Value | Glass Transition Temperature T _g (DSC) [°C] | Minimum Film-Forming Temperature (ISO 2115) [°C] | Predominant Particle Size [µm] | Stabilization System | | <u>Renders, Plasters, Top Coat for ETICS</u> | <u>Adhesive Mortar and Base Coat for ETICS</u> | <u>Waterproofing Membranes</u> | <u>Tile Adhesives (1K RTU)</u> | <u>Cement Admixtures (2K)</u> | <u>Self-Leveling Compounds</u> | <u>Bonding Agents, Primers (1K RTU)</u> | <u>Joint Compounds</u> |
| VAc-E | 63 | 200–1,000 | 6.0–8.0 | 8 ± 2 | 0 | 1.0 | ST/PVOH | VINNAPAS® 536 ED | | | ●● | | | | | |
| VAc-E | 55 | 1,300–2,000 | 4.0–6.0 | 0 ± 2 | 0 | 1.0 | PVOH | VINNAPAS® 547 ED | | | | | ●● | | ●● | |
| VAc-E | 55 | 100–400 | 4.0–6.0 | -5 | 0 | 1.0 | PVOH | VINNAPAS® 550 ED | | | ●● | | ●● | | ● | ●● |
| VAE | 55 | 2,000–4,000 | 4.0–6.0 | -10 | 0 | 1.0 | PVOH | VINNAPAS® 561 ED | | | ●● | | | | ●● | |
| VAc-E-VE | 59 | 1,800–2,000 | 4.0–6.0 | -12 | 0 | 1.0 | ST | VINNAPAS® 760 ED | | | ●● | | ●● | | | |
| S-A | 50 | 6,000–12,000 | 7.5–8.5 | 20 | 12 | 0.1 | ST | VINNAPAS® 224 HD | ●● | ●● | ● | ●● | | | ●● | |
| S-A | 50 | 700–3,000 | 7.0–8.0 | 0 | 0 | 0.1 | ST | VINNAPAS® 240 HD | | ● | ●● | ●● | | | ●● | |

●● Highly recommended ● Recommended



The Perfect Fit:

RECOMMENDATION BY APPLICATION

Tile Adhesives

| Grade | Product Benefit | Performance Attributes | | |
|-------------------------|--|--------------------------------------|---------------------------------------|--|
| Product Name | | Tensile Adhesion Strength after: | | |
| | | Open Time DIN EN 12004- 2:2017 | Heat Aging DIN EN 12004- 2:2017 | Water Immersion DIN EN 12004- 2:2017 |
| Neutral | | | | |
| VINNAPAS® 4023 N | Semi-flexible dispersible polymer powder with good tensile adhesion strength on inorganic surfaces even after water immersion. | ● ● | ● ● | ● ● |
| VINNAPAS® 4240 N | Semi-flexible dispersible polymer powder with good tensile adhesion strength on inorganic surfaces and especially after heat aging. | ● ● | ● ● ● | ● |
| VINNAPAS® 5010 N | Hard dispersible polymer powder with very good tensile adhesion strength on inorganic surfaces especially after heat aging. | ● ● | ● ● ● | ● |
| Enhanced | | | | |
| VINNAPAS® 5028 E | Semi-flexible dispersible polymer powder with long open time and good tensile adhesion strength after water immersion. | ● ● ● | ● ● | ● ● |
| VINNAPAS® 7210 E | Long open time and very good tensile adhesion strength after water immersion and heat aging. | ● ● ● | ● ● ● | ● ● |
| VINNAPAS® 7220 E | Semi-flexible dispersible polymer powder with very good workability and excellent tensile adhesion strength after water immersion. | ● ● | ● ● ● | ● ● ● |
| VINNAPAS® 7410 E | Semi-flexible dispersible polymer powder with long open time, a good water and freeze/thaw resistance and excellent tensile adhesion strength after water immersion. | ● ● ● | ● ● ● | ● ● |
| Thixotropic | | | | |
| VINNAPAS® 5012 T | Thixotropic, hard dispersible polymer powder with very good tensile adhesion strength after standard conditions. | ● ● | ● ● ● | ● |
| VINNAPAS® 5021 T | Thixotropic, semi-flexible dispersible polymer powder with long open time and good tensile adhesion strength especially after water immersion. | ● ● ● | ● ● | ● ● |

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



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Tile Adhesives (1K Ready-To-Use)

| Grade | Product Benefit | Performance Attributes | | | |
|------------------|---|------------------------|------------------------|-------------|--------------------|
| | | Class D1 (EN 12004) | Class D2 (EN 12004) | Filler Load | Slip Resistance |
| VINNAPAS® 224 HD | The proven benchmark for D2 tile adhesives. | | ● ● | ● ● | ● ● |
| VINNAPAS® 240 HD | Flexible dispersible polymer dispersion recommended to formulate pasty D2 tile adhesives. | | ● ● | ● ● | ● |



Tile Grouts

| Grade | Product Benefit | Performance Attributes | | |
|--------------------|---|------------------------|-------------|---|
| Product Name | | Hydrophobic Effect | Workability | Cleaning Properties after Initial Setting |
| Neutral | | | | |
| VINNAPAS® 5010 N | Hard dispersible polymer powder with good workability. | ○ | ● ● ● | ● ● ● |
| Hydrophobic | | | | |
| VINNAPAS® 3030 H | Flexible dispersible polymer powder with excellent hydrophobic effect, very high mechanical strength and low stickiness. | ● ● | ● ● | ● ● |
| VINNAPAS® 5518 H | Hard dispersible polymer powder with strong hydrophobic effect, very good workability, high mechanical strength and good cleaning properties after first setting. | ● ● | ● ● ● | ● ● ● |
| VINNAPAS® 7031 H | Flexible dispersible polymer powder with hydrophobic effect and very good workability. | ● | ● ● ● | ● ● |
| VINNAPAS® 8031 H | Flexible dispersible polymer powder with slight hydrophobic effect, good workability and low stickiness. | ● | ● | ● ● |
| VINNAPAS® 8034 H | Flexible dispersible polymer powder with strong hydrophobic effect, good workability and low stickiness. | ● ● | ● | ● ● |

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



Self-Leveling Compounds

| Grade | Product Benefit | Performance Attributes | | |
|------------------|--|------------------------|-----------|---------------|
| Product Name | | Flow Support | Defoaming | Stabilization |
| Leveling | | | | |
| VINNAPAS® 4220 L | Good defoaming properties for smooth surfaces and specifically recommended for end products with adequate mechanical properties. | ● ● | ● ● | ● |
| VINNAPAS® 4410 L | Excellent defoaming properties for very smooth, flat surfaces and good stabilization against water over-dosage. | ● ● | ● ● ● | ● ● ● |
| VINNAPAS® 5023 L | Good defoaming properties for smooth surfaces and specifically recommended for end products with melamine sulfates. | ● ● | ● | ● ● |
| VINNAPAS® 5025 L | Good defoaming properties for smooth surfaces and very good tolerance against water over-dosage. | ● ● | ● | ● ● ● |
| VINNAPAS® 5111 L | Good defoaming properties at low viscosity for very smooth, flat surfaces for end products with very low emissions. | ● ● ● | ● ● | ● |
| VINNAPAS® 5222 L | Very good defoaming properties at low viscosity for smooth, flat surfaces. | ● ● ● | ● ● | ● |
| Flow | | | | |
| VINNAPAS® 5014 F | Instant plasticizing effect especially for pumpable systems with shear-thinning rheology. | ● ● ● | ● | ● |
| VINNAPAS® 7016 F | Instant plasticizing effect with casein-like rheology and very good self-healing effect especially for manually applied systems. | ● ● ● | ● | ● ● |



Wall and Joint Fillers

| Grade | Product Benefit | Performance Attributes | | |
|-------------------------|---|------------------------|------------|-------------|
| Product Name | | Hydrophobicity | Thixotropy | Workability |
| Neutral | | | | |
| VINNAPAS® 4023 N | Semi-flexible polymer powder with good tensile adhesion strength on all surfaces and good workability. | ○ | ○ | ● |
| VINNAPAS® 5010 N | Hard dispersible polymer powder with very good tensile adhesion strength on all surfaces and good workability. | ○ | ○ | ● ● |
| VINNAPAS® 5044 N | Highly flexible polymer powder with good flexibility and high deformability. | ○ | ○ | ● ● |
| Hydrophobic | | | | |
| VINNAPAS® 7031 H | Flexible dispersible polymer powder with hydrophobic effect, very good workability and very good tensile adhesion strength. | ● ● | ○ | ● ● ● |
| Thixotropic | | | | |
| VINNAPAS® 5012 T | Thixotropic, hard dispersible polymer powder with good workability and very good tensile adhesion strength. | ○ | ● ● | ● ● ● |
| VINNAPAS® 5021 T | Thixotropic, semi-flexible dispersible polymer powder with good workability, long open time and good tensile adhesion strength. | ○ | ● ● | ● ● ● |
| VINNAPAS® 5046 T | Strongly thixotropic, very flexible dispersible polymer powder with very good workability. | ○ | ● ● ● | ● ● ● |

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



Concrete Repair

| Grade | Product Benefit |
|-------------------------|--|
| Product Name | |
| Neutral | |
| VINNAPAS® 5044 N | Very flexible dispersible polymer powder with very good tensile adhesion strength on all surfaces. |
| Enhanced | |
| VINNAPAS® 7034 E | Flexible dispersible polymer powder with excellent workability and good tensile adhesion strength on all surfaces. |



Cement Admixtures (2K)

| Grade | Product Benefit | Performance Attributes | | | | |
|-------------------------|--|------------------------|----------|-----------------|---------------------------|-------------------|
| | | Flexibility | Adhesion | Hydro-phobicity | Elastic Modulus Reduction | Flexural Strength |
| VINNAPAS® 547 ED | Standard grade for bonding aid applications with excellent balance of adhesion and cohesion. | ● ● | ● ● | ● | ● ● | ● ● |
| VINNAPAS® 550 ED | Product with improved flexibility and good mechanical strength. | ● ● | ● ● | ● | ● ● | ● |
| VINNAPAS® 760 ED | Highly flexible product with excellent cement compatibility and outstanding adhesion properties. | ● ● | ● ● | ● ● | ● ● | ● ● |



ETICS

| Grade | | Performance Attributes | | |
|--------------------|--|---------------------------|-------------------|----------------|
| Product Name | Product Benefit | Tensile Adhesion Strength | Impact Resistance | Hydrophobicity |
| Neutral | | | | |
| VINNAPAS® 4023 N | Semi-flexible dispersible polymer powder with high tensile adhesion on mineral substrates after water immersion. | ● ● | ● | ○ |
| VINNAPAS® 4240 N | Very good tensile adhesion strength particularly on organic surfaces and high impact strength. | ● ● ● | ● | ○ |
| VINNAPAS® 5043 N | Very flexible dispersible polymer powder with very good tensile adhesion strength particularly on organic surfaces, very high impact strength and good workability. | ● ● ● | ● ● ● | ○ |
| VINNAPAS® 5044 N | Very flexible dispersible polymer powder with very good tensile adhesion strength particularly on organic surfaces, very high impact strength and good workability. | ● ● ● | ● ● ● | ○ |
| Hydrophobic | | | | |
| VINNAPAS® 4042 H | Very flexible dispersible polymer powder with slight hydrophobic effect, very good tensile adhesion strength particularly on organic surfaces and very high impact strength. | ● ● ● | ● ● ● | ● ● |
| VINNAPAS® 5048 H | Very flexible dispersible polymer powder with strong hydrophobic effect, very good tensile adhesion strength particularly on organic surfaces and very high impact strength. | ● ● ● | ● ● ● | ● ● ● |



Renders, Plasters, Top Coat for ETICS (1K Ready-To-Use)

| Grade | Product Benefit | Performance Attributes | | | | | |
|------------------|--|-------------------------------|------------------------|------------------------|----------------------------|-----------------|------------|
| | | Synthetic Resin-Bound Renders | Silicone-Bound Renders | Silicate-Bound Renders | Resistance to Dirt Pick-Up | Color Stability | Durability |
| VINNAPAS® 224 HD | Proven benchmark for a wide range of applications. | ● ● | ● ● | | ● ● | ● ● | ● ● |

Adhesive Mortar and Base Coat for ETICS

| Grade | Product Benefit | Formulation | | Performance Attributes | | | |
|------------------|--|-----------------|----|------------------------|-------------|----------------|---------------------------|
| | | 1K Ready-To-Use | 2K | Flame Resistance | Flexibility | Hydrophobicity | Compatibility with Cement |
| VINNAPAS® 224 HD | Product for ready-to-use tile adhesives and embedding mortars. | ● ● | | | ● | ● ● | |

Renders and Plasters

| Grade | Product Benefit | Tensile Adhesion Strength | Hydrophobicity |
|-------------------------|--|---------------------------|----------------|
| Neutral | | | |
| VINNAPAS® 5010 N | Hard dispersible polymer powder with very good tensile adhesion strength on inorganic surfaces and good workability. | ● ● ● | ○ |
| Enhanced | | | |
| VINNAPAS® 7034 E | Excellent workability and very good tensile adhesion strength. | ● ● ● | ● |
| Hydrophobic | | | |
| VINNAPAS® 5048 H | Very flexible dispersible polymer powder with strong hydrophobic effect and very good tensile adhesion strength. | ● ● ● | ● ● ● |
| VINNAPAS® 5518 H | Hard dispersible polymer powder with strong hydrophobic effect, very good workability and very good tensile adhesion strength. | ● ● ● | ● ● ● |
| VINNAPAS® 7031 H | Flexible dispersible polymer powder with hydrophobic effect, very good workability and very good tensile adhesion strength. | ● ● ● | ● ● |
| VINNAPAS® 8034 H | Flexible dispersible polymer powder with strong hydrophobic effect, good workability and very good tensile adhesion strength. | ● ● ● | ● ● ● |

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



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Bonding Agents, Primers (1K Ready-To-Use)

| Grade | Product Benefit | Performance Attributes | | | | |
|-------------------------|--|------------------------|-----------------------|---------------------------------|-------------|------------------|
| | | Penetration | Surface Consolidation | Adhesion on Critical Substrates | Flexibility | Water Resistance |
| VINNAPAS® 224 HD | Proven benchmark for primers. | ● | ●● | ●● | ● | ●● |
| VINNAPAS® 240 HD | Recommended for pasty tile adhesives as D2 adhesive. | ●● | ●● | ●● | ●● | ●● |
| VINNAPAS® 547 ED | Standard grade for bonding aid applications with excellent balance of adhesion and cohesion. | | ●● | ●● | ● | ● |
| VINNAPAS® 561 ED | Good tensile adhesion strength on all surfaces, reasonable elongation and good crack-bridging properties and elasticity with good performance under positive water pressure. | | ● | ●● | ●● | ● |



Waterproofing Membranes

| Grade | Product Benefit | Adhesion on Critical (Especially Organic) Surfaces |
|-------------------------|--|--|
| Neutral | | |
| VINNAPAS® 5044 N | Very flexible dispersible polymer powder with very good tensile adhesion strength on all surfaces and good crack-bridging properties. | ● ● ● |
| Enhanced | | |
| VINNAPAS® 4040 E | Very flexible dispersible polymer powder with very good tensile adhesion strength and very good crack-bridging properties combined with improved workability. | ● ● ● |
| VINNAPAS® 7055 E | Highly flexible dispersible polymer powder with very good tensile adhesion strength particularly on all surfaces and very good crack-bridging properties even at low temperatures. | ● ● ● |
| Hydrophobic | | |
| VINNAPAS® 4042 H | Very flexible dispersible polymer powder with slight hydrophobic effect and very good tensile adhesion strength. | ● ● ● |
| VINNAPAS® 5048 H | Very flexible dispersible polymer powder with strong hydrophobic effect and very good tensile adhesion strength. | ● ● ● |
| VINNAPAS® 5518 H | Hard dispersible polymer powder with strong hydrophobic effect, very good workability and high mechanical strength. | ● |



Waterproofing Membranes

| Grade | Product Benefit | Formulation | | Performance Attributes | | | |
|-------------------------|--|-----------------|-----|---|-----------------------------|-------------|--|
| | | 1K Ready-To-Use | 2K | Dispersion; Liquid-Applied Water-Impermeable Product (EN 14891) | Cement Mortar CM (EN 14891) | Flexibility | Adhesion on Critical (Esp. Organic) Surfaces |
| VINNAPAS® 240 HD | Optimum binder for flexible ready-touse waterproofing membranes. | ● ● | | ● ● | | ● ● | ● ● |
| VINNAPAS® 536 ED | Highly versatile product with excellent crack-bridging properties adhesion, cohesion and water resistance. | | ● ● | | ● ● | | ● ● |
| VINNAPAS® 760 ED | Highly flexible product with excellent workability and outstanding adhesion properties. | | ● ● | | ● ● | ● ● | ● ● |
| VINNAPAS® 550 ED | Very good combination of excellent compatibility with cement and good flexibility. | | ● ● | | ● ● | ● ● | ● ● |
| VINNAPAS® 561 ED | Good tensile adhesion post water emersion, excellent negative pressure permeability. | | ● ● | | ● ● | ● ● | ● ● |

Based on WACKER guide formulation: ●● Excellent ● Good
K = component



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, 13 training centers and our basic research center.

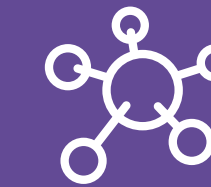
And most importantly: we are there wherever you need us – worldwide. Our local specialists know your markets and speak your language. Working with them, you will find innovative solutions that win over your customers and make you more competitive.

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All figures are based on fiscal 2018.



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
- 24 production sites in Europe, Asia and the Americas
- 22 technical centers
- 13 WACKER ACADEMY training centers
- 50 sales offices



Employees: 14,500



Total Sales

€4,98 billion



19





WACKER

Wacker Chemicals Middle East FZE

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