

**WACKER**

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

ADHESIVES | POLYMER BINDERS | EUROPE

# PRODUCT OVERVIEW VINNAPAS® DISPERSIONS

# VINNAPAS<sup>®</sup> VAE – THE HIGH-PERFORMANCE SOLUTION

Success in the adhesives market often depends on choosing the right binder. VINNAPAS<sup>®</sup> vinyl acetate-ethylene (VAE) technology offers outstanding benefits in terms of performance, safety and versatility.

VINNAPAS<sup>®</sup> VAE dispersions are water-based co- and terpolymers mainly based on vinyl acetate and ethylene as comonomers.

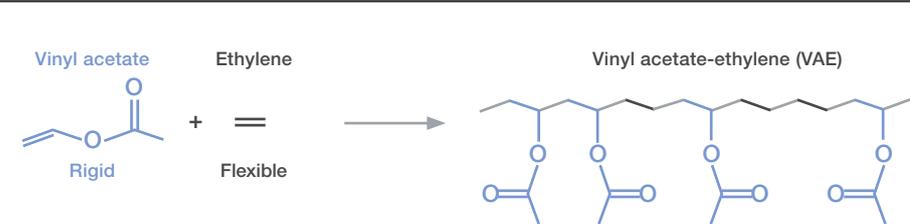
Ethylene contributes permanent flexibility to the VAE polymer. No external plasticizer is thus necessary in VAEs.

## Diverse Applications

VINNAPAS<sup>®</sup> VAE dispersions can be formulated into adhesives for various applications:

- Paper packaging (e.g. food packaging, envelope manufacturing, film lamination onto paper)
- Wood (e.g. film lamination onto wood, 3D membrane pressing, EPI systems)
- Flooring installation (e.g. textile flooring, flexible coverings)
- Car interiors (e.g. door paneling)
- Tapes & labels

**Two Monomers Creating Best-in-Class Performance**



**Polymer Properties Provided by Ethylene:**

- Softness ( $T_g$  approx.  $-125\text{ }^{\circ}\text{C}$ )
- Non-polar, hydrophobic
- Permanent flexibility
- High saponification resistance
- Form ideal copolymers with vinyl acetate

**Vinyl Acetate:**

- Hardness ( $T_g$  approx.  $32\text{ }^{\circ}\text{C}$ )
- Polar, hydrophilic
- Rigid

**VAE Copolymer and Terpolymer Dispersion Properties:**

VINNAPAS<sup>®</sup> VAE dispersions can be formulated into adhesives that provide outstanding benefits:

- Excellent adhesion to a wide variety of substrates
- High heat resistance
- Very fast setting
- Excellent machinability and re-emulsification properties
- Very good cost / performance ratio
- $T_g$  range from approx.  $-35\text{ }^{\circ}\text{C}$  to approx.  $30\text{ }^{\circ}\text{C}$ , depending on ethylene content



# YOUR QUALITY CHOICE – MADE EASY

Our VINNAPAS® dispersions are specially designed to address the continuously changing needs of the modern adhesives industry, offering up-to-date solutions for the latest end-user requirements and market trends.

VINNAPAS® dispersions set the industry benchmark in product quality, performance and reliability. With our product portfolio you benefit from:

- Consistently high quality
- 80 years' experience in vinyl acetate based dispersion technology
- Properties such as adhesion, heat resistance, bonding to a wide range of different substrates, fast setting speed, high wet tack, reliable machinability, and broad formulation possibilities

## Technical Support



WACKER is one of the most research-intensive chemical corporations worldwide. Our VINNAPAS® grades for adhesives applications are produced in five manufacturing plants across Europe, the Americas, China and the Asia-Pacific region. To support adhesives manufacturers, we also operate dedicated state-of-the-art adhesives laboratories and technical centers around the globe, where we carry out extensive tests to develop formulations for new products or optimize those of existing products.



**WACKER**

**Wacker Chemie AG**  
Hanns-Seidel-Platz 4  
81737 Munich, Germany  
[www.wacker.com/contact](http://www.wacker.com/contact)

[www.wacker.com](http://www.wacker.com)

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