

# VINNAPAS® EP 3560

## The Next-Generation VAE Binder for Paints and Plasters with Optimized Emissions Profile for Modern Healthy Living Standards

VINNAPAS® EP 3560 is a new high-quality binder for interior paints and dispersion-based plasters and is also suitable for exterior applications. It is ideally used above the critical pigment volume concentration (CPVC) and combines excellent performance with cost-in-use benefits. It has been designed with an optimized emissions profile to make it the binder of choice for high-quality interior paints and plasters that comply with both today's strict ecolabel requirements and those of tomorrow.

### High Solids Content

VINNAPAS® EP 3560 has a solids content of 60% (up to 20% more than standard binders). That advantage translates into:

- Increased formulation flexibility
- Cost savings due to the reduced number of orders and deliveries and increased silo capacity

### Excellent Technical Performance

VINNAPAS® EP 3560 offers best-in-class performance in a variety of areas such as thickener response even to cellulose and acrylic, or color resistance. In terms of scrub resistance and hiding power, the dispersion outperforms competing technologies, including traditional and low-T<sub>g</sub>/MFFT styrene acrylics.

### Attractive Cost-in-Use Benefits

The technical properties translate into formulation benefits:

- Reduction of binder content by proportionally raising the PVC content
- Less TiO<sub>2</sub> content
- No coalescent agents or plasticizers
- Improved hiding power, which also facilitates application and reduces application cost

### Properties of VINNAPAS® EP 3560

Polymer composition	VAc-E
Solids [wt. %]	60 ± 1
T <sub>g</sub> [°C]	~ 10
MFFT [°C]	~ 2
Particle size [µm]	0.3
Brookfield viscosity [mPa s]	3,000–6,000
pH	4 – 6
VOC total	~ 1,500 ppm
Stabilization	PVOH + ST

### Wide Application Range in Interior Coatings

VINNAPAS® EP 3560 is suitable for a broad range of interior coatings from dead-matt to semigloss. In matt paint formulations (75% PVC), VINNAPAS® EP 3560 stands out with excellent color resistance and a hiding power class 1 at a spreading rate of 8 m<sup>2</sup>/l. In semigloss paints (~ 35% PVC), the dispersion exhibits excellent alkali resistance.

### Recommendations for VINNAPAS® EP 3560

#### Gloss Levels

Flat	●●●
Eggshell	●●
Satin	●

#### Typical Applications

Interior wall paints	●●●
Ceiling paints	●●●
Interior plasters	●●
Interior primers	●
Glass-fiber wall covering paints	●
Exterior paints	●

#### End-User Suitability

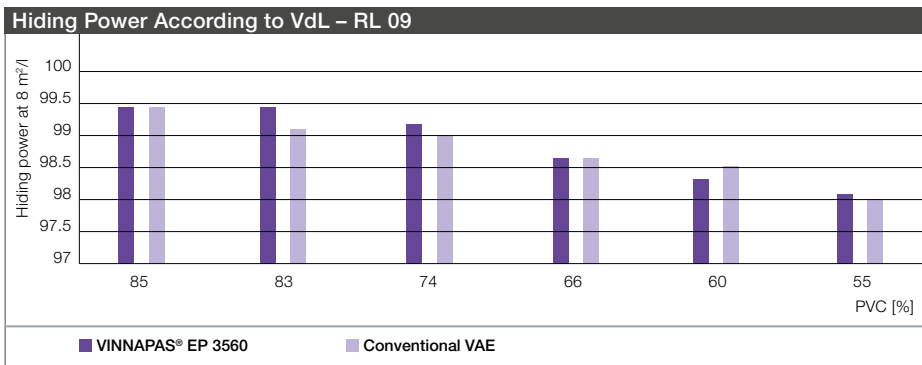
Do-it-yourself	●●●
Contractors	●●●

- Highly recommended
- Recommended
- Suitable

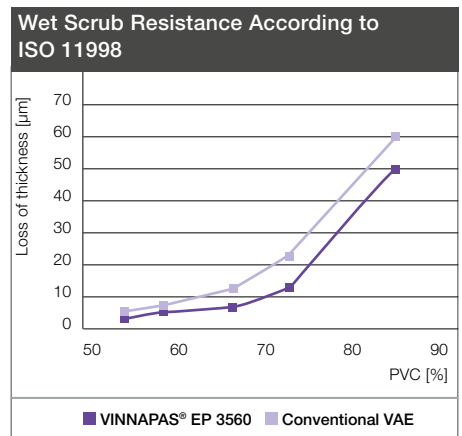
### Efflorescence Resistance



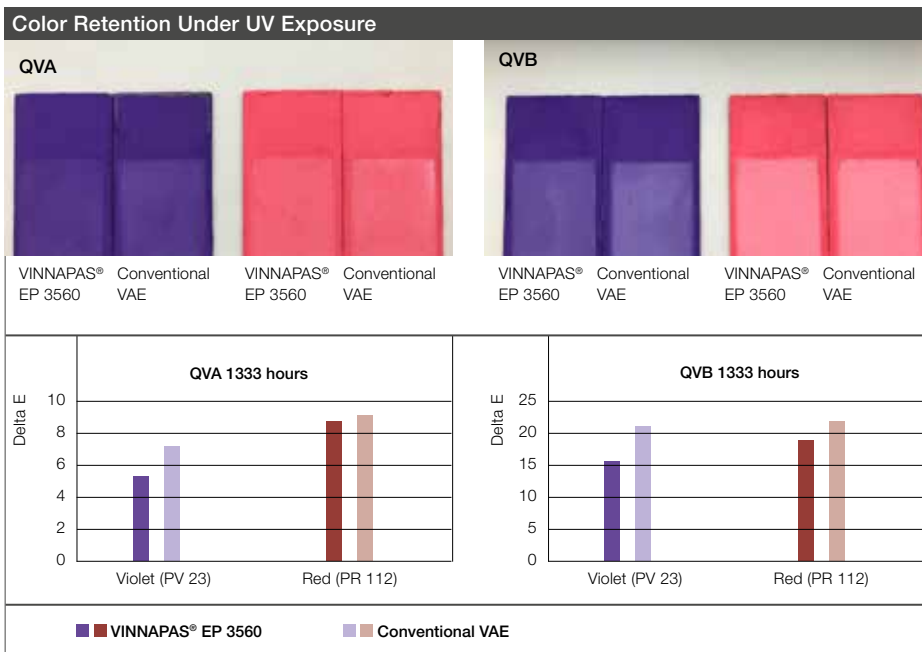
A paint containing a conventional binder (right-hand side) and a paint formulated with VINNAPAS® EP 3560 (left-hand side) were applied to an autoclaved aerated concrete block, subjected to 5% NaOH for 7 days and dried for 14 days. The paint formulated with VINNAPAS® EP 3560 shows no signs of precipitations on the surface, indicating excellent efflorescence resistance.



VINNAPAS® EP 3560 enables very good hiding power, allowing for efficient use of material and time.



Paints formulated with VINNAPAS® EP 3560 exhibit better wet scrub resistance than conventional VAE over a wide range of PVC levels.



- #### At a Glance: Properties of VINNAPAS® EP 3560
- Optimized emissions profile for modern living environments
  - Ideal for low-PVC paints that comply with strict ecolabeling (e.g. Nordic Swan)
  - Low-odor and very-low-VOC (< 1 g/l) paints possible
  - Suitable for semigloss to dead-matt paints
  - Suitable for dispersion-based plasters
  - High solids content for formulation flexibility and supply-chain efficiency
  - Produced without the use of APEOs
  - No need for coalescence aids
  - Excellent scrub resistance
  - Exceptionally high binding power
  - Outstanding color development and stability
  - Very low residual VAM (< 100 ppm)



Wacker Chemie AG, 81737 Munich, Germany, Tel. +49 89 6279-1741, info@wacker.com, www.wacker.com, www.wacker.com/socialmedia



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