

MIDDLE EAST AFRICA | CONSTRUCTION & ARCHITECTURAL COATINGS | VINNAPAS® EP 3360

# VINNAPAS® EP 3360

High-Solids VAE Binder for Low-Odor and Very-Low-VOC Architectural Coatings with High Scrub Resistance, Designed for a Broad PVC Range

VINNAPAS® EP 3360 is our state-of-the-art binder for flat and eggshell interior and exterior paints and plasters. It is ideally used above the critical pigment volume concentration (CPVC) and combines low-odor and very-low-VOC capability with excellent performance and cost-in-use benefits.

### VINNAPAS® EP 3360 – Your Gateway to Formulating Low-Odor and Very-Low-VOC Architectural Coatings

VINNAPAS® EP 3360 enables the formulation of low-odor and very-low-VOC paints (< 1 g/l), since it has a very low residual monomer content (< 200 ppm) and does not need organic solvents or coalescing agents to achieve optimum film formation. Its odor profile is noticeably subdued, especially compared to standard styrene-acrylic or vinyl-acrylic technology, resulting in quicker reuse of rooms after renovation. Furthermore, it is produced without the use of APEOs and features very low formaldehyde (< 20 ppm). The product is therefore especially suitable for places where low-emission paints are essential, e.g. in children's rooms, hotels and public buildings, such as hospitals and schools. VINNAPAS® EP 3360 is suitable for formulating paints that comply with major international ecolabels.

Properties of VINNAPAS® EP 3360	
Solids [wt. %]	59 – 61
T <sub>g</sub> [°C]	10
MFFT [°C]	2
Viscosity [mPa s]	4,500 ± 1,500
Stabilization	PVOH + ST

### VINNAPAS® EP 3360 – Your Solution for Increased Formulation Flexibility and Supply-Chain Efficiency

VINNAPAS® EP 3360 has a solids content of 60% (up to 20% more than standard binders), offering greater formulation flexibility by contributing less water. It is also perfectly suited for modern formulation technologies using pigment and filler slurries. Beyond formulation advantages, VINNAPAS® EP 3360 also makes supply chains more efficient: its higher solids content means fewer orders and deliveries are needed. This reduces the silo space required for storage, which, in turn, reduces cost and effort.

### VINNAPAS® EP 3360 – Your Solution for Top-Performance Architectural Coatings

VINNAPAS® EP 3360 offers best-in-class performance in a variety of areas, such as scrub resistance and hiding power. Here, VINNAPAS® EP 3360 can outperform competing technologies, including traditional and low-T<sub>g</sub>/MFFT styrene acrylics. Because the dispersion enables very high scrub resistance, the resulting paint film is easier to wash and clean without negative impacts for the appearance of the paint. Furthermore, the binder's good workability facilitates application. VINNAPAS® EP 3360 allows the formulation of one-coat paints. This reduces the downtime of the facility and rooms can be quickly used again.

### Recommendations for VINNAPAS® EP 3360

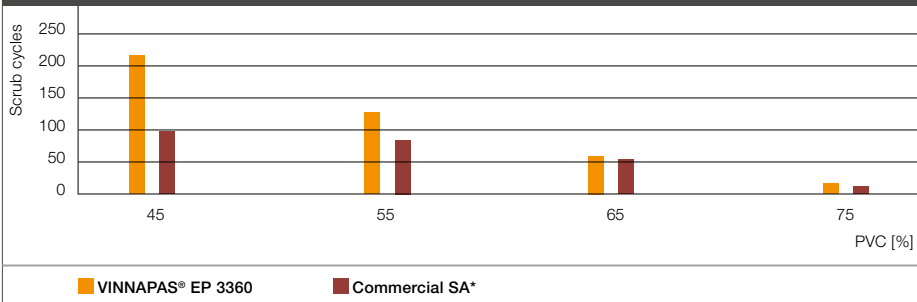
Gloss Levels	
Flat	●●●
Eggshell	●●
Satin	●
Typical Applications	
Interior wall paints	●●●
Ceiling paints	●●●
Interior plasters	●●
Interior primers	●
Glass fiber wall covering paints	●
Exterior paints	●
End-User Suitability	
Do-it-yourself	●●●
Contractors	●●●

Suitable ● Recommended ●● Highly recommended ●●●

### VINNAPAS® EP 3360 Offers Attractive Cost-in-Use Benefits

Its good thickener response allows formulators to improve cost-in-use performance and adjust workability. The binder's excellent scrub resistance not only increases performance, but also cuts costs at a high performance level, since binder usage can be reduced by proportionally raising the PVC content. The improved hiding power compared to standard styrene acrylic systems leads to less TiO<sub>2</sub> usage, resulting in lower formulation costs. The improved hiding power also facilitates application, making one-coat paints possible, thus reducing application cost. Furthermore, VINNAPAS® EP 3360 allows for the formulation of coalescent- and plasticizer-free paints, saving additional material costs.

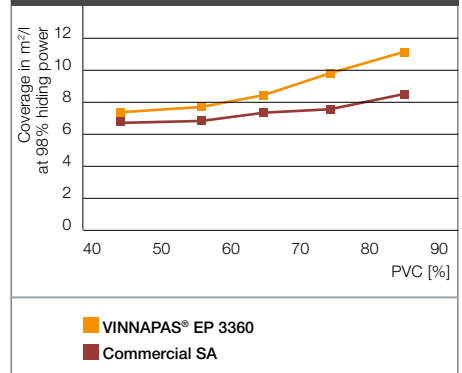
### Comparison of Scrub Resistance between VINNAPAS® EP 3360 and a Commercial Styrene Acrylic According to ASTM D2486 Using an Abrasive Scrub Medium



\*Tg = 22; formulation contains coalescing agent

Comparison of scrub resistance between VINNAPAS® EP 3360 and a commercial styrene acrylic (SA) at different PVC levels in an interior white paint formulation. VINNAPAS® EP 3360 exhibits much better scrub resistance over a wide range of PVC formulations.

### Hiding Power Comparison as per ISO 6504-3



In terms of hiding power, VINNAPAS® EP 3360 shows better performance than standard styrene acrylics across a wide range of PVC levels. Consequently, a reduction of the TiO<sub>2</sub> level is possible.

### Comparison of Hiding Power between VINNAPAS® EP 3360 and Commercial Styrene Acrylic (SA)

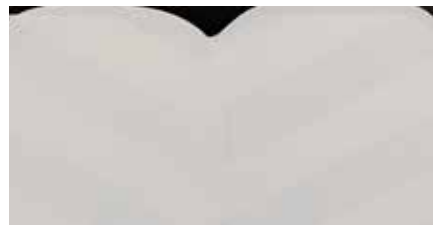
Paint formulation with 55% PVC



VINNAPAS® EP 3360

Commercial SA

Paint formulation with 70% PVC



VINNAPAS® EP 3360

Commercial SA

### Properties at a Glance:

- Suitable for flat to eggshell paints
- Suitable for various applications, from wall paints to primers and plasters
- High solids content for formulation flexibility and supply-chain efficiency
- Very high scrub resistance
- Better hiding power than standard acrylic systems at the same PVC level
- Excellent response to thickening agents
- Suitable for both contractor and DIY applications
- Produced without the use of APEOs
- Very low residual VAM (< 200 ppm)
- Low-odor and very-low-VOC (< 1 g/l) paints possible
- Allows formulation without coalescing solvents
- Very good color acceptance
- Highly recommended for interior applications and suitable for exterior use



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