

VINNAPAS® EP 3360

Interior-Coatings, High-Solids VAE Binder for Low-Odor and Very-Low-VOC Paints 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 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 Interior Paints

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. %]	60 ± 1
Tg [°C]	10
MFFT [°C]	2
Particle size [µm]	0.3
Viscosity [mPa s]	4,500 ± 1,500
pH	4–6

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 Interior Paints

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_g/MFFT styrene acrylics. Its very high scrub resistance means that the resulting paint film is easier to clean and wash without negative implications for the appearance of the paint. Furthermore, its good workability makes application easier. VINNAPAS® EP 3360 allows the formulation of on-coat paints so, rooms can very quickly be used again, reducing the downtime of the facility.

Recommendations for VINNAPAS® EP 3360

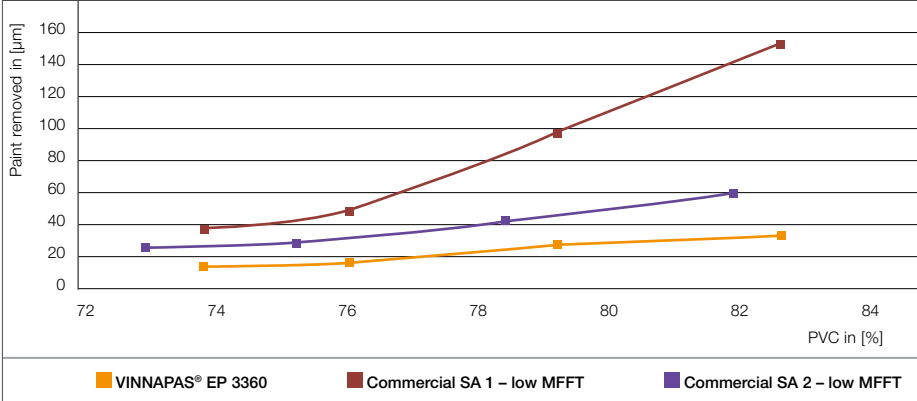
Gloss Levels	
Flat	●●
Eggshell	●●
Satin	●
Typical Applications	
Interior wall paints	●●
Ceiling paints	●●
Interior plasters	●●
Interior primers	●
Glass fiber wall covering paints	●
End-User Suitability	
Do-it-yourself	●●
Contractors	●●

Recommended ● Highly recommended ●●

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

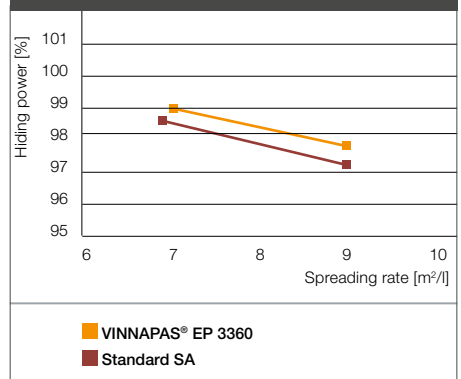
Its good thickener response means that formulators can improve cost-in-use performance and adjust workability. The binder's excellent scrub resistance not only increases performance, but also cuts costs at a high performance level, since binder usage can be reduced by proportionally raising the PVC content. The improved hiding power compared to standard styrene acrylic systems leads to less TiO₂ usage, resulting in lower formulation costs. The improved hiding power also facilitates application, making one-coat paints possible and thus reducing application cost. Furthermore VINNAPAS® EP 3360 allows for the formulation of coalescent- and plasticizer-free paints, thus saving additional material costs.

Scrub Resistance Comparison Based on PVC Level as per EN ISO 11998



Comparison of scrub resistance between VINNAPAS® EP 3360 and two commercial standard, low MFFT-styrene acrylics (SA). The paint abrasion in microns is plotted as a function of the PVC. VINNAPAS® EP 3360 shows much better abrasion resistance than the SA-based samples over the entire PVC range shown.

Hiding Power Comparison as per ISO 6504-3



VINNAPAS® EP 3360 shows better hiding power at given spreading rates than a competitive standard styrene acrylic (SA). This ability to improve hiding power while keeping the spreading rate high reduces the total cost per m².

Hiding Power Comparison of VINNAPAS® EP 3360 vs. Standard Styrene Acrylic (SA)



In terms of hiding power, VINNAPAS® EP 3360 shows better performance than standard styrene acrylics at the same PVC level. Consequently a reduction of the TiO₂ level is possible.

At a Glance:

Properties of VINNAPAS® EP 3360

- Suitable for flat to eggshell paints
- Suitable for various interior applications, from wall paints to primers to 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



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