VINNAPAS® EP 3360 (ULS)

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 (ULS) 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 (ULS) – Your Gateway to Formulating Low-Odor and Very-Low-VOC Interior Paints

VINNAPAS® EP 3360 (ULS) 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 like hospitals and schools. VINNAPAS® EP 3360 (ULS) is suitable for formulating paints that comply with major international ecolabels.

Properties of VINNAPAS® EP 3360 (ULS)	
Solids [wt. %]	60 ± 1
T_g [°C]	10
MFFT [°C]	2
Particle size [µm]	0.5
Viscosity [mPa s]	4,500 ± 1,500
pH	5–8

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

VINNAPAS® EP 3360 (ULS) 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 (ULS) 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 (ULS) – Your Solution for Top-Performance Interior Paints

VINNAPAS® EP 3360 (ULS) offers best-in-class performance in a variety of areas, such as scrub resistance and hiding power. Here, VINNAPAS® EP 3360 (ULS) 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 (ULS) allows the formulation of one-coat paints, so that rooms can very quickly be used again, reducing the downtime of the facility.

Recommendations for VINNAPAS® EP 3360 (ULS)	
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	●●

●● Highly recommended
● Recommended

VINNAPAS® EP 3360 (ULS) Offers Attractive Cost-in-Use Benefits

Its good thickener response and color acceptance enable formulators to improve cost-in-use performance. 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_2 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 (ULS) allows for the formulation of coalescent- and plasticizer-free paints, thus saving additional material cost.

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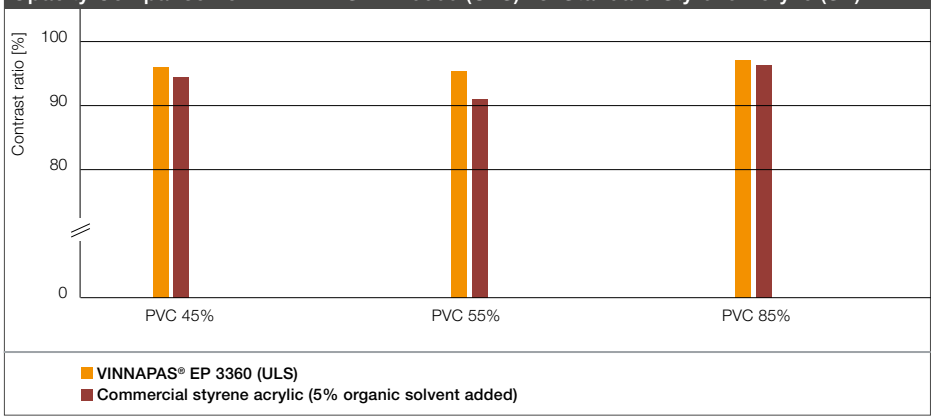
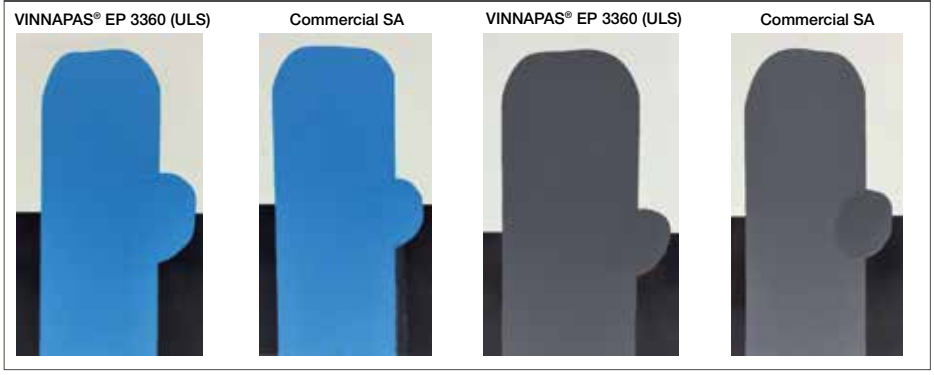
Opacity Comparison of VINNAPAS® EP 3360 (ULS) vs. Standard Styrene Acrylic (SA)



Comparison of opacity levels between VINNAPAS® EP 3360 (ULS) and a commercial styrene acrylic at different PVC levels in interior white paint. The VAE shows consistently more hiding power, allowing one-coat systems or a reduction of TiO_2 to save costs.

Color Acceptance Comparison of VINNAPAS® EP 3360 (ULS) vs. Standard Styrene Acrylic (SA)



Comparison of color acceptance of VINNAPAS® EP 3360 (ULS) and a commercial styrene-acrylic emulsion in an 85%-PVC interior-paint formulation. Blue (P.B. 15.4 / 27% pigment) and black (P..Bk. 7 / 40% pigment) examples both show that the VAE binder exhibits good color acceptance even with critical high-volume use of colorants.

At a Glance: Properties of VINNAPAS® EP 3360 (ULS)

- 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
- 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 high scrub resistance
- Better hiding power than standard acrylic systems at the same PVC level
- Excellent response to thickening agents and very good color acceptance
- Good stain resistance against a variety of hydrophilic and hydrophobic stains

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7422e/02.18 replaces 7422e/09.17