

VINNAPAS® EP 3888 ULS

Binder for Low-Odor and Very-Low-VOC Interior Paints, Designed for the Mid to High PVC Range

VINNAPAS® EP 3888 ULS is a dispersion designed for the mid to high PVC range. It is based on vinyl acetate-ethylene (VAE) technology, which is ideal for formulating low-odor and very-low-VOC interior paints with high performance and cost-in-use benefits.

VINNAPAS® EP 3888 ULS – the Ideal Binder for Formulating Low-Odor and Very-Low-VOC Interior Paints

With a very low residual monomer content of less than 200 ppm, VINNAPAS® EP 3888 ULS supports the formulation of low-odor and very-low-VOC paints. Depending on formulation preferences, organic solvents or coalescing agents can be minimized or omitted while still achieving optimum film formation. The binder's odor profile is also noticeably subdued, especially compared to standard styrene-acrylic or vinyl-acrylic technology, resulting in quicker reuse of rooms after renovation.

Furthermore, VINNAPAS® EP 3888 ULS is produced without the use of APEOs and features a very low formaldehyde content (< 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 3888 ULS – Your Solution for High-Performance Interior Paints

VINNAPAS® EP 3888 ULS offers best-in-class performance in a variety of areas, such as scrub resistance and hiding power. In these areas, VINNAPAS® EP 3888 ULS can outperform competing technologies, including traditional styrene acrylics. Because the dispersion enables very high scrub resistance, the resulting paint film is easier to wash and clean without any negative impact on the appearance of the paint. Furthermore, the binder's good workability facilitates application.

VINNAPAS® EP 3888 ULS Offers Attractive Cost-in-Use Benefits

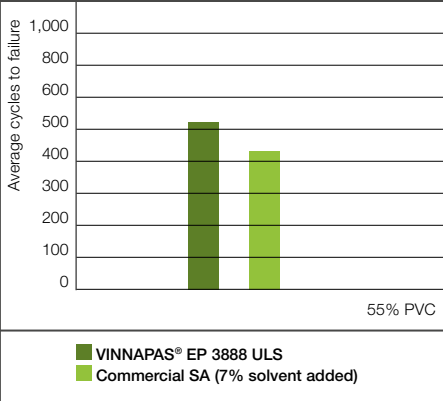
The binder's excellent scrub resistance not only increases performance at a given PVC level, but also allows increased PVC levels and reduced amounts of binder while maintaining a high performance level. The improved hiding power allows for a lower TiO₂ content, resulting in lower formulation costs. It can also help facilitate application, making one-coat paints possible, thereby reducing application costs. Furthermore, VINNAPAS® EP 3888 ULS allows for the formulation of coalescent- and plasticizer-free paints, which saves the additional costs for those raw materials.

Properties of VINNAPAS® EP 3888 ULS

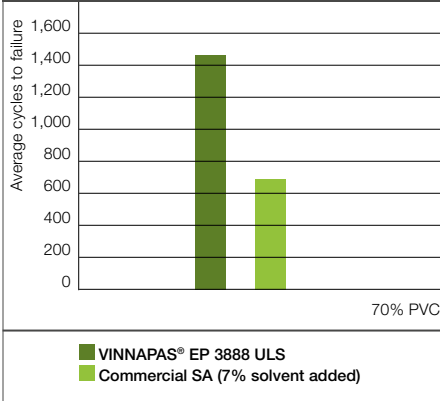
Solids [wt. %]	50 ± 1
T _g [°C]	10
MFFT [°C]	2
Particle size [µm]	0.3
Viscosity [mPa s]	700 ± 500
pH	5–8



Comparison of Scrub Resistance between VINNAPAS® EP 3888 ULS and a Commercial Styrene Acrylic According to ASTM D2486-17 Using an Abrasive Scrub Medium



Comparison of Scrub Resistance between VINNAPAS® EP 3888 ULS and a Commercial Styrene Acrylic According to ASTM D2486-17 Using a Soap Solution



At a Glance: Properties of VINNAPAS® 3888 ULS

- Suitable for various applications including wall paints and ceiling paints
- Suitable for both contractor and DIY applications
- Produced without the use of APEOs
- Very low residual VAM content (< 200 ppm)
- Capability to formulate low-odor and very-low-VOC (< 1 g/l) paints
- Allows formulation without coalescing solvents
- High scrub resistance
- Better hiding power than standard acrylic systems

Comparison of scrub resistance between VINNAPAS® EP 3888 ULS and a commercial styrene acrylic (SA) at different PVC levels in a white interior paint formulation. VINNAPAS® EP 3888 ULS exhibits much better scrub resistance for both 55% PVC and 70% PVC formulations.

Comparison of Hiding Power between VINNAPAS® EP 3888 ULS and a Commercial Styrene Acrylic (SA)



In terms of hiding power, VINNAPAS® EP 3888 ULS shows better performance than standard styrene acrylics at the same PVC level. Consequently, a reduction of the TiO₂ level is possible.



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