

LATIN AMERICA | COATINGS | VINNAPAS® EF8001

VINNAPAS® EF8001

Versatile Interior-Coatings Binder for Low-Odor and Low-VOC Paints

VINNAPAS® EF8001 is our premier binder for flat and satin paints, combining superior low-odor and low-VOC capability with excellent performance and cost-in-use benefits.

VINNAPAS® EF8001 – Your Gateway to Formulating Low-Odor and Low-VOC Interior Paints

VINNAPAS® EF8001 enables formulations of low-odor and low-VOC paints (< 5 g/l), since it has a very low residual-monomer content (< 200 ppm) and does not need organic solvents or coalescing agents. Its odor profile is noticeably subdued, especially compared to standard styrene acrylic technology. Furthermore, it is produced without the use of APEOs and features low formaldehyde. It is GS-11 compliant and meets applicable environmental regulations, such as those of the Green Building Council in Brazil.

Properties of VINNAPAS® EF8001	
Solids (wt. %)	55 ± 1
Tg (°C)	6
MFFT (°C)	0
Particle size (µm)	0.23
Viscosity (cPs)	400 ± 250
pH	4 – 5
Density (g/cm³)	1.07

VINNAPAS® EF8001 – Your Solution for High-Performance Interior Paints

VINNAPAS® EF8001 offers best-in-class performance in a variety of areas, such as scrub resistance and touch-up performance. Here, VINNAPAS® EF8001 can outperform competing technologies, including styrene acrylics and vinyl acrylics. Another performance feature is the binder's good alkaline hydrolysis resistance. Its high solid content gives the formulator broader formulation flexibility.

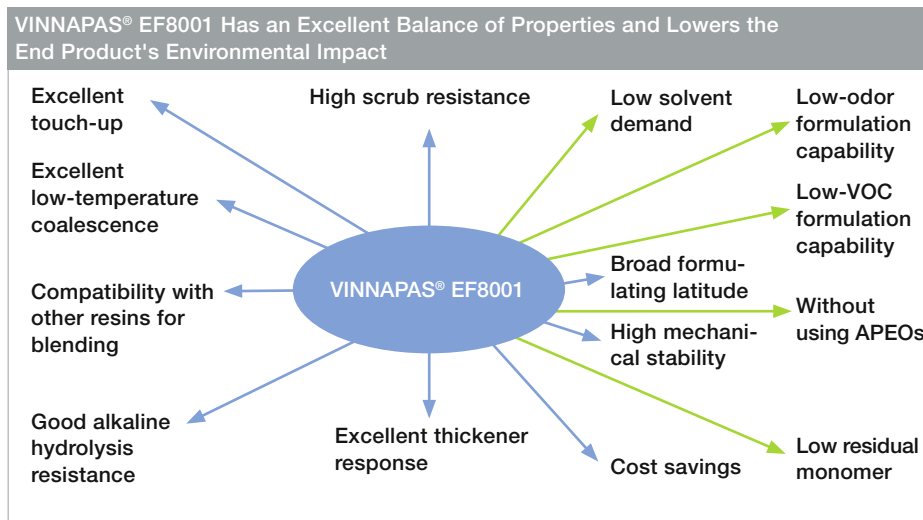
Recommendations for VINNAPAS® EF8001

Gloss Levels	
Flat	● ●
Satin	●
Semi-gloss	●
Typical Applications	
Interior walls	● ●
Kitchens & bathrooms	●
Interior doors & windows	●
End-User Suitability	
Do-it-yourself	● ●
Contractors	● ●

●● Highly recommended
● Recommended

VINNAPAS® EF8001 Offers Attractive Cost-in-Use Benefits

Alongside its environmental benefits (no organic solvents or coalescing agents), the binder offers overall cost-in-use advantages. Its good response to associative thickeners offers further possibilities to improve cost-in-use data. The binder's excellent scrub resistance not only increases performance, but also cuts costs at a given performance level, since binder usage can be reduced by proportionally raising the PVC content.



VINNAPAS® EF8001 Scrub Resistance versus a Styrene Acrylic

ABNT NBR 14940 (Brazilian standard)

VINNAPAS® EF8001



Styrene acrylic



128 cycles-to-failure in a styrene acrylic architectural-coating formulation, while the VINNAPAS® EF8001 formulation remains almost the same.

325 cycles-to-failure in a VINNAPAS® EF8001 architectural-coating formulation, while the styrene acrylic formulation is clearly scrubbed away.

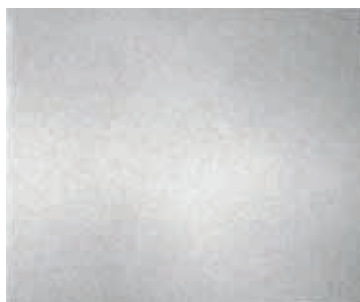
A comparison of scrub resistance (as per ABNT NBR 14940) in a 58% PVC and 31% solids-by-volume formulation, with no coalescent added to VINNAPAS® EF8001 and 5% organic solvent added to the styrene acrylic. VINNAPAS® EF8001 achieves a VOC level of 8 g/l, while the styrene acrylic reaches a significantly higher one of 28 g/l.

Touch-Up Properties of VINNAPAS® EF8001 versus a Vinyl Acrylic

Low temp.



Low temp.



Ambient temp.

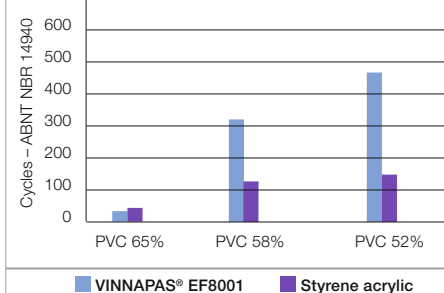
Vinyl acrylic

Ambient temp.

VINNAPAS® EF8001

VINNAPAS® EF8001 exhibits excellent ambient- and low-temperature touch-up properties, even when formulated at low VOC levels.

VINNAPAS® EF8001 Scrub Resistance versus a Styrene Acrylic at Different PVC Levels



A comparison of scrub resistance (as per ABNT NBR 14940) in 52%, 58% and 65% PVC formulations, each with 31% solids by volume, where no coalescent is added to VINNAPAS® EF8001 and 5% organic solvent (based on binder solids) is added to the styrene acrylic. At 65% PVC, scrub resistance is comparable. As PVC content drops, the advantages of VINNAPAS® EF8001 increase in terms of scrub. At PVC 52%, the scrub resistance of VINNAPAS® EF8001 is more than triple that of the styrene acrylic.

At a Glance:

Properties of VINNAPAS® EF8001

- Produced without the use of APEOs
- Very low residual VAM (< 200 ppm)
- Allows formulation without coalescing solvents
- Excellent scrub resistance
- Very good touch-up properties
- Improved water resistance
- Good response to associative thickeners
- Suitable for multiple interior applications, from wall paint to trim paint
- Suitable for flat finishes and satin paints
- Suitable for both contractor and DIY applications