

VINNAPAS® EP 6420

All-Purpose VAE Copolymer Dispersion for Nozzle Applications

VINNAPAS® EP 6420 is our new, all-purpose vinyl acetate-ethylene (VAE) copolymer dispersion with best-in-class performance for nozzle applications. Beside its excellent nozzle runnability, the product demonstrates a good adhesion/cohesion balance, outstanding cleanability, high setting speed and enhanced machine processing.

Responding to Market Trends

VINNAPAS® EP 6420 meets the specific need of formulating waterborne adhesives for the paper and packaging market. It answers the current demand for cost controls in a slow-growth economy marked by fluctuating raw material prices – which calls for greater operational efficiencies in the production of adhesives. It is also designed for adhesive formulators who want to offer solutions that feature increased production speeds, greater precision and longer runtimes between cleaning.

No External Plasticizer Needed

VINNAPAS® EP 6420 reduces recipe complexity and enables better asset utilization and precision. Thanks to its ethylene content, it is internally plasticized and therefore does not require external plasticizers. Consequently, adhesive formulations based on VINNAPAS® EP 6420 demonstrate low migration potential.

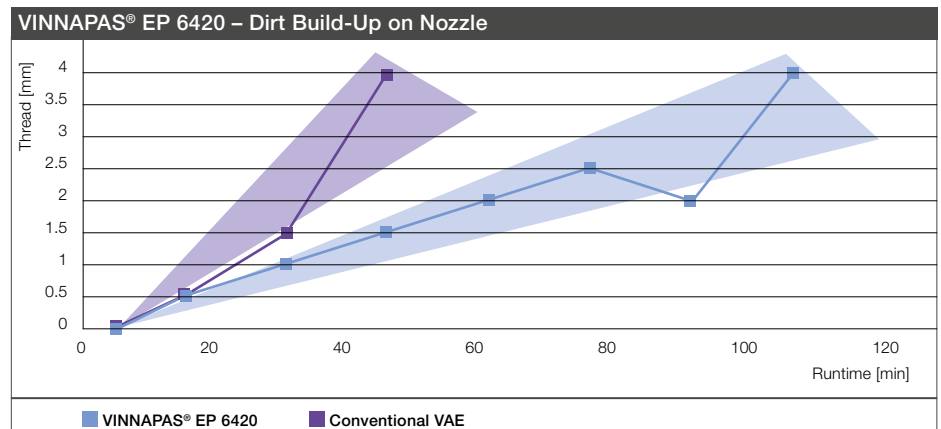
Excellent Nozzle Performance

VINNAPAS® EP 6420 is the next generation of VAE copolymer dispersions for adhesives used in paper and packaging. It has been developed specifically to cater to the increasingly adopted non-contact extrusion “nozzle” technology in which

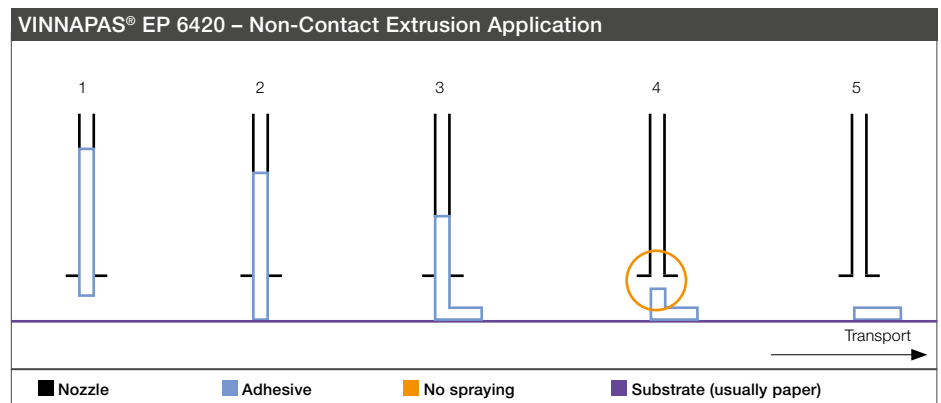
the binder is applied to the substrate as pulsed dots. Nozzle technology is steadily replacing roller technology in Europe, the US and Asia due to its greater production speed, reduced binder consumption and much higher flexibility. In nozzle applications, VINNAPAS® EP 6420 facilitates excellent running stability as there is no skin formation at the nozzle.

Equally Suited to Nozzle and Roller Applications

VINNAPAS® EP 6420 meets the increasing demand for dispersions that perform reliably in both nozzle and roller applications. In high-speed cylinder (roller) applications, VINNAPAS® EP 6420 minimizes splashing and prevents the adhesive from splitting.



VINNAPAS® EP 6420 shows significantly less dirt build-up than conventional grades.



Outstanding Rheological Performance

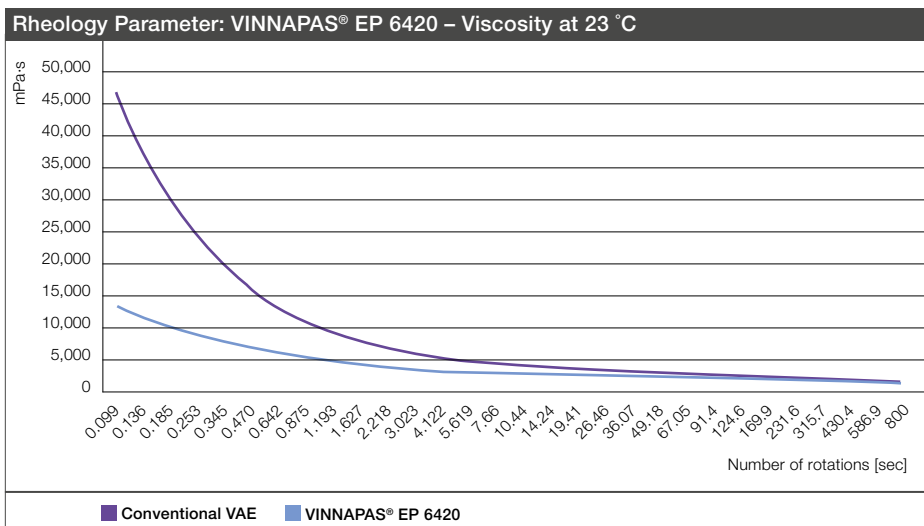
VINNAPAS® EP 6420 exhibits similar rheological behavior under external shear conditions as VINNAPAS® EP 441, which is widely utilized for nozzle applications in Europe. Even under high shear conditions, its viscosity movement is stable. Thanks to its outstanding rheological performance, VINNAPAS® EP 6420's nozzle runnability is also superior to that of conventional VAE grades.

One Product for All Viscosities

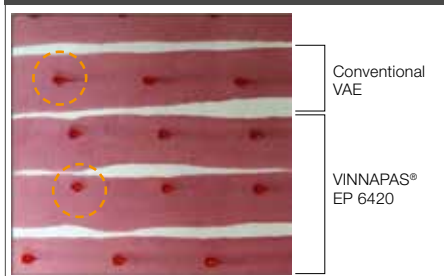
VINNAPAS® EP 6420 is an all-purpose VAE copolymer dispersion. You no longer need to stock multiple additives or rely on multiple suppliers. VINNAPAS® EP 6420 allows for formulations with a very broad range of viscosities due to its optimal viscosity and solids content, as well as its high sedimentation stability when diluted to low viscosities.

Environmental, Health & Safety Benefits

Thanks to their polymer composition, VAE dispersions can be formulated without external plasticizers. VINNAPAS® EP 6420 is produced without any APEOs and its residual vinyl acetate level is below 100 ppm. VINNAPAS® EP 6420 therefore enables the formulation of adhesives with low migration potential.



Rheological Properties: Excellent Nozzle Runnability of VINNAPAS® EP 6420



At a Glance: Advantages of VINNAPAS® EP 6420

- Suitable both for nozzle and roller applications
- Superior nozzle velocity
- Running stability during nozzle applications; no skin formation
- Low splashing during high-speed cylinder (roller) applications
- Good adhesion/cohesion balance
- Excellent cleanability
- Solids content: 55%
- Viscosity: 3,500–5,500 mPa·s
- Produced without the use of APEOs



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