VINNAPAS® VAE FOR CARPET BACKING APPLICATIONS

VINNAPAS® vinyl acetate-ethylene copolymer (VAE) dispersions are suitable for use in a broad range of carpet backing applications such as tufted broadloom and tiles, woven and needlefelts.

WACKER offers a number of carpet backing dispersions with strong binding strength, varying hand, and excellent processability. VINNAPAS® VAE dispersions excel in low odor, low emissions and flammability resistance.

VINNAPAS® carpet backing dispersions are excellent binders with fillers such as calcium carbonate and aluminum trihydrate (ATH), and they compound readily with most other formulation additives used in the carpet manufacturing industry.

Service:
Customer-specific formulations can be developed and tested via in-house testing according to the methods of the carpet industry including delamination and tuft bind tests.

VINNAPAS® is a registered trademark of Wacker Chemie AG.

Product Data

Grade	Type	Solid Content [wt%]	Viscosity (RVT, 23 °C, 20 rpm) [mPa.s]	pH	Tg (DSC) [°C]	Hand Feel
VINNAPAS® Vinyl Acetate-Ethylene Copolymer Dispersion						
VINNAPAS® CA 5185	VAE	51.5 – 54.5%	100 – 400	3.0 – 4.5	-7	Soft
VINNAPAS® EP 705A	VAE	54.0 – 56.0%	1,900 – 2,800	4.0 – 5.0	0	Medium
VINNAPAS® CA 55	VAE	61.0 – 63.0%	1,000 – 3,000	5.0 – 7.0	6	Medium
VINNAPAS® CA 5566	VAE	62.5 – 64.0%	200 – 800	6.0 – 7.5	8	Medium
VINNAPAS® CA 5677	VAE	55.0 – 57.0%	100 – 1,200	3.5 – 5.0	10	Medium
VINNAPAS® CA 5880	VAE	57.0 – 59.0%	500 – 2,500	3.5 – 5.0	18	Firm

Applications

Grade	Tufted Broadloom	Tile	Woven	Needlefelt
VINNAPAS® Vinyl Acetate-Ethylene Copolymer Dispersion				
VINNAPAS® CA 5185	●●		●	
VINNAPAS® EP 705A	●	●●	●●	
VINNAPAS® CA 55	●●	●●	●●	●
VINNAPAS® CA 5566	●●	●●	●●	●
VINNAPAS® CA 5677	●		●	●●
VINNAPAS® CA 5880	●●	●●	●●	●

●● = Excellent ● = Good

Properties at a Glance

VINNAPAS® VAE dispersion is a high-quality binder for carpet backing applications.
It provides:
- Very low odor, low emissions
- Lower flammability, reduced smoke
- Strong tuft bind
- Good delamination strength
- Excellent dimensional stability

The tuft bind test examines how well the precoat adheres the fibers to the primary backing.

VINNAPAS®

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