

CONSTRUCTION I NORTH AMERICA I VINNAPAS® EF575

VINNAPAS® EF575 – VAE BINDER WITH OPTIMAL COST PERFORMANCE RATIO FOR CONSTRUCTION ADHESIVES

VINNAPAS® EF575 is a versatile vinyl acetate-ethylene (VAE) binder used for construction adhesives that provides great flexibility in performance while offering a sustainable, economic solution.

Low Environmental Impact

VINNAPAS® EF575 is manufactured without the addition of any APEO containing surfactants, defoamers, or formaldehyde/ formaldehyde donors. It also has a total free residual vinyl acetate monomer content of <1,000 ppm.

Strong Bond to a Variety of Substrates

VINNAPAS® EF575 provides great formulating flexibility as a binder used in construction adhesives. It demonstrates excellent adhesion to materials such as fiber reinforced plastic (FRP) and poly(vinyl chloride) (PVC) and also yields strong penetration into porous surfaces. VINNAPAS® EF575 can be formulated with various pigments, fillers, and thickeners to pass ASTM C557.



Measuring wood to wood shear strength.

Properties of VINNAPAS® EF575		
Solids [wt%]	54.0-56.0	
Viscosity [mPa.s]	200-850	
рН	4.0-5.0	
Density [g/cm ³]	Approx. 1.07	
Particle size [µ]	Approx. 0.2	
T _g [°C]	Approx. 0	

Benefits of VINNAPAS® EF575 in Construction Adhesives

- Excellent adhesion to wood, FRP, PVC
- Can be formulated to pass ASTM C557
- Can be formulated with various pigments, fillers, and thickeners
- Compatible with other binder chemistries
- Does not contain any sources of formaldehyde or formaldehyde donors
- Manufactured without the use of alkylphenol ethoxylate components

VINNAPAS® EF575 Construction Formula Performance Acc. to ASTM C557				
Test	Requirement	Result		
Tensile strength, 24 hours	15 psi	28 psi		
Tensile strength, 14 days	25 psi	29 psi		
Shear strength, 24 hours	10 psi	97 psi*		
Shear strength, 14 days	40 psi	76 psi*		
Accelerated aging	No cracking or flaking	No cracking or flaking		
Freeze-thaw stability	3 cycles, no change in workability	No change in workability 100 psi*		
Static shear load	24 hours shear strength: 10 psi No bond line movement	No bond line movement		
	(38 °C and 22 °C)	at either temperature		

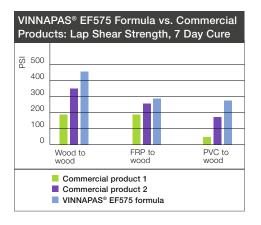
^{*} Samples resulted in complete substrate failure.



VINNAPAS® EF575 – General Purpose Construction Formula FLI-119				
Material	Pounds	Gallons	Weight [%]	Supplier
VINNAPAS® EF575	322.90	36.28	25	WACKER
Igepal® CA-897	12.92	1.55	1	Rhodia
Tamol™ 851	12.92	1.55	1	Dow Chemical
Ethylene Glycol	12.92	1.39	1	
Foamaster® MO NXZ	2.58	0.36	0.2	BASF
Drikalite®	684.55	30.29	53	Imerys
Natrosol™ 250HHR	16.79	1.45	1.3	Ashland
Water	226.03	27.13	17.5	
	1295.77	100.00	100.0	

Physical Properties		
Density [lbs./gal.]	13.0	
% solids, by weight	69.3	
% solids, by volume	52.4	
VOC [g/l]	19	
Pigment to binder ratio	3.9	
Viscosity [mPa.s]	290,000	
рН	7.6	
PVC	58.0	

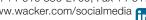
Formulation Stability	
4 week 50 °C viscosity [mPa.s]	320,000
Freeze-thaw stability	5 cycles



VINNAPAS® is a trademark of Wacker Chemie AG. Other trademarks are the property of their respective owners.



For technical, quality, or product safety questions, please contact: Wacker Chemical Corp., 6870 Tilghman Street, Allentown, PA 18106-9346, USA Tel. +1 610 336-2700, Fax +1 517 264-4088, info.usa@wacker.com, www.wacker.com www.wacker.com/socialmedia in







The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.