

WACKER

CREATING TOMORROW'S SOLUTIONS

VINNAPAS®

CONSTRUCTION | DISPERSIBLE POLYMER POWDERS & DISPERSIONS | WATERPROOFING MEMBRANES | EUROPE

POLYMER BINDERS FOR WATERPROOFING MEMBRANES PRODUCT OVERVIEW

WATERPROOFING WITH VINNAPAS® POLYMER BINDERS

In many countries around the world, water is in short supply. At the same time, it is the archenemy of all structures. Whether water pipes need to be sealed or buildings need permanent protection against damage: VINNAPAS® based membranes provide reliable protection.

In the cured waterproofing membrane, VINNAPAS® forms polymer bridges, which ensure:

- Enhanced cohesion and adhesion to different substrates
- Significantly improved flexibility and crack-bridging
- Increased elongation
- High resistance to positive and negative hydrostatic water pressure
- Water-vapor permeability
- Minimal or no odor
- Excellent compatibility with various cements

VINNAPAS® is a registered trademark of Wacker Chemie AG.

Typical Applications



Swimming Pools



Wet Rooms
(bathrooms, kitchens)



Agricultural Water Supply
(canals, pipes, storage)



Residential & Commercial Buildings
(basements)



Drinking Water
(pipes, storage)



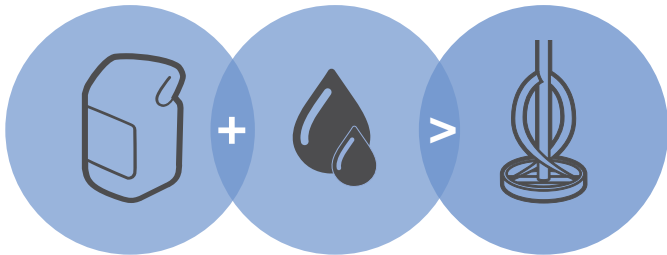
Infrastructure
(bridges, car parks, tunnels,
sewage drainage)

FIND YOUR BEST-IN-CLASS SOLUTION FOR EVERY APPLICATION

VINNAPAS® offers best-in-class solutions for different waterproofing systems. The portfolio comprises proven solutions that have been optimized for decades as well as innovative products to meet future challenges.



1-Component (1K) Cementitious Systems



Dry-Mix Mortar + Water → Wet Mortar

For rigid
waterproofing
membranes



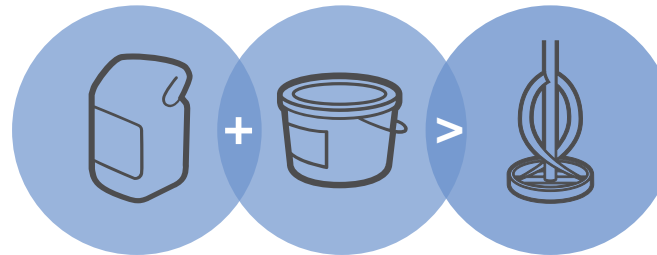
VINNAPAS® N/H
Polymer Powders

For flexible
waterproofing
membranes



VINNAPAS® N/H
Polymer Powders

2-Component (2K) Cementitious Systems



Dry-Mix Mortar + Dispersion → Wet Mortar

For flexible
waterproofing
membranes



VINNAPAS® ED
Dispersions

1-Component (1K) Ready-To-Use Systems



Dispersion + Filler + Pigment + Additives

For flexible
waterproofing
membranes



VINNAPAS® HD
Dispersions

VINNAPAS® DISPERSIBLE POLYMER POWDERS FOR 1-COMPONENT CEMENTITIOUS WATERPROOFING MEMBRANES



Flexible Systems

Grade	Product Benefit	Performance Attributes		
Product Name		Flexibility	Flexibility at low temperatures	Workability
Neutral				
VINNAPAS® 5044 N	Very good tensile adhesion strength on all surfaces and good crack-bridging properties.	●●●	●●	●●
Enhanced				
VINNAPAS® 5042 E	Very good tensile adhesion strength on all surfaces and good crack-bridging properties.	●●●	●●	●●
VINNAPAS® 7055 E	Very good tensile adhesion strength particularly on all surfaces and very good crack-bridging properties even at low temperatures.	●●●	●●●	●●
VINNAPAS® 7353 E*	Developed for rapid-setting systems. Excellent workability, low stickiness and non-slump.	●●●	●●●	●●●

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral

*The product is in the operational launch phase (scale-up product).
The product data are therefore subject to change. Please clarify with WACKER prior to industrial use.

N VINNAPAS® N Class – Neutral Effect on Rheology

These products provide a high degree of freedom in developing formulations and are ideal for various applications.

E VINNAPAS® E Class – Enhanced Properties

These products have enhanced properties in a number of applications and improve essential characteristics. They ensure improved workability, increased adhesion or water resistance, to name just a few.

VINNAPAS® eco

The majority of VINNAPAS® grades that contain vinyl acetate can be certified as VINNAPAS® eco according to the mass balance approach. For more information on the mass balance approach and available VINNAPAS® eco grades, please visit www.wacker.com or contact your local representative.

VINNAPAS® DISPERSIBLE POLYMER POWDERS FOR 1-COMPONENT CEMENTITIOUS WATERPROOFING MEMBRANES



Rigid Systems

Grade	Product Benefit	Performance Attributes			
Product Name		Hydrophobicity	Adhesion	Flexibility	Workability
Neutral					
VINNAPAS® 5044 N	Very good tensile adhesion strength on all surfaces and good crack-bridging properties.	○	● ● ●	● ● ●	● ● ●
Hydrophobic					
VINNAPAS® 3030 H	Very strong hydrophobic effect combined with very good workability.	● ● ●	● ●	●	● ● ●
VINNAPAS® 4042 H	Slight hydrophobic effect and very good tensile adhesion strength.	●	● ● ●	● ● ●	● ● ●
VINNAPAS® 5048 H	Very strong hydrophobic effect and tensile adhesion strength.	● ● ●	● ●	● ● ●	● ●
VINNAPAS® 5518 H	Medium hydrophobic effect, very good workability and high mechanical strength.	● ●	● ● ●	●	● ● ●
VINNAPAS® 8031 H	Medium hydrophobic effect with very good tensile adhesion strength.	● ● ●	● ● ●	● ●	● ●
VINNAPAS® 8034 H	Strong hydrophobic effect with good tensile adhesion strength.	● ● ●	● ●	● ●	● ●

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral



VINNAPAS® N Class – Neutral Effect on Rheology

These products provide a high degree of freedom in developing formulations and are ideal for various applications.



VINNAPAS® H Class – Hydrophobic Excellence

These products have remarkable hydrophobic properties, making them ideal for all types of plasters and tile grouts as well as for ETICS (external thermal insulation composite systems).

VINNAPAS® eco

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VINNAPAS® POLYMER DISPERSIONS FOR 2-COMPONENT CEMENTITIOUS WATERPROOFING MEMBRANES



Grade	Product Benefit	Performance Benefits				
Product Name		Flexibility (+23 °C)	Flexibility (-5 °C)	Flexibility (-20 °C)	Adhesion on Critical Surfaces	Solids Content (%)
Enhanced Properties						
VINNAPAS® 550 ED	All-round product for improved flexural strength and water resistance.	●●●	●●		●●●	~53
VINNAPAS® 754 ED	Combines high flexibility with excellent adhesion bond strength.	●●●	●●●		●●●	~55
VINNAPAS® 760 ED	Excellent workability combined with very good compatibility with all types of cements.	●●●	●●●	●	●●●	~59
VINNAPAS® 764ED	Combines very high flexibility even at low temperatures with improved adhesion bond strength after all storage conditions.	●●●	●●●	●●●	●●●	~60

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral

ED

Enhanced Properties

VINNAPAS® ED polymer dispersions provide enhanced properties in various applications and improve essential characteristics like improved workability, increased adhesion or crack-bridging.

VINNAPAS® eco

The majority of VINNAPAS® grades that contain vinyl acetate can be certified as VINNAPAS® eco according to the mass balance approach. For more information on the mass balance approach and available VINNAPAS® eco grades, please visit www.wacker.com or contact your local representative.

VINNAPAS® POLYMER DISPERSIONS FOR 1-COMPONENT CEMENT-FREE, READY-TO-USE WATERPROOFING MEMBRANES



Grade	Product Benefit	Performance Benefits			
Product Name		Flexibility (+23 °C)	Flexibility (-5 °C)	Adhesion on Critical Surfaces	Solids Content (%)
Hydrophobic Excellence					
VINNAPAS® 202 HD	All-round product with excellent adhesion bond strength after all storage conditions and possibility of reduced emissions.	●●●		●●●	-50
VINNAPAS® 224 HD	All-round product with excellent adhesion bond strength after all storage conditions.	●●●		●●●	-50
VINNAPAS® 240 HD	Superior product providing excellent crack-bridging and saponification resistance.	●●●	●●	●●●	-50

Based on WACKER guide formulation: ●●● Excellent ●● Very Good ● Good ○ Neutral



Hydrophobic Excellence

VINNAPAS® HD polymer dispersions provide remarkable hydrophobic effects in addition to excellent product properties like improved adhesion.

VINNAPAS® eco

The majority of VINNAPAS® grades that contain vinyl acetate can be certified as VINNAPAS® eco according to the mass balance approach. For more information on the mass balance approach and available VINNAPAS® eco grades, please visit www.wacker.com or contact your local representative.



WACKER

Wacker Chemie AG
Gisela-Stein-Strasse 1
81671 Munich, Germany
www.wacker.com/contact

www.wacker.com

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1018en/03.25 replaces 1018en/06.24