

# VINNAPAS® 4419 E (SCALE UP)



## Dispersible Polymer Powders

VINNAPAS® 4419 E (SCALE UP) is a multi-purpose dispersible polymer powder for dry mix mortars, specifically suited for tile adhesives and Skim Coat.

It is based on a hard copolymer of vinylacetate and ethylene and belongs to the product class VINNAPAS® E. It improves fresh mortar consistency and workability, provides better wetting capability and extended open time and can be used in many applications where improved fresh mortar properties are key. VINNAPAS® 4419 E (SCALE UP) is in the process of introduction into industrial use (Scale-up Product). Therefore the product data given are subject to change. Always consult WACKER POLYMERS about the product's availability before using it for industrial purposes.

## Properties

- VINNAPAS® 4419 E (SCALE UP) is a copolymer powder of vinyl acetate and ethylene and is dispersible in water.
- Dry-mix mortars modified with VINNAPAS® 4419 E (SCALE UP) exhibit improved adhesion, flexural strength, deformability and abrasion resistance.
- VINNAPAS® 4419 E (SCALE UP) improves the workability and consistency of fresh mortar. The mortar is softer, creamier and easier to apply by trowel. Its antisagging resistance is unaffected.
- VINNAPAS® 4419 E (SCALE UP) is ideal for modifying cementitious and gypsum-based dry-mix mortars, especially tile adhesives.
- VINNAPAS® 4419 E (SCALE UP) contains a fine mineral filler as an antiblocking agent. It is produced without the addition of organic solvents, plasticizers or film-forming agents.
- VINNAPAS® 4419 E (SCALE UP) is suitable for formulating advanced, low-emissions tile adhesives. It provides an extended open time and can be used in many applications where improved fresh mortar properties are key.

## Specific features

- Adhesion on critical surfaces

## Technical data

### Specification

Property	Condition	Value	Method
Ash content	1000 °C	max. 13 %	specific method
Solids content	-	min. 98 %	DIN EN ISO 3251
Bulk density	-	490 - 590 kg/m <sup>3</sup>	DIN EN ISO 60
Particle size	> 400 µm	max. 4 %	DIN EN ISO 4610

### General Characteristics

Property	Condition	Value	Method
Appearance	-	white to light beige powder	Visual
Minimum film forming temperature	-	4 °C	DIN ISO 2115
Protective colloid / emulsifier system	-	polyvinyl alcohol	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Mineral Renders & Plasters
- One-Component Cementitious Tile Adhesives

## Application details

For typical application fields of VINNAPAS® 4419 E (SCALE UP), refer to the section "application". Please discuss additional applications with your WACKER customer representative.

### Processing

For the production of ready-mixed dry mortars, such as adhesives and patching compounds, blend VINNAPAS® 4419 E (SCALE UP) with the other dry ingredients in appropriate equipment. Temperatures should not be allowed to rise excessively during mixing because otherwise the dispersible polymer powder could agglomerate by virtue of its thermoplastic properties. The mortar is prepared for use by adding the recommended amount of water and mixing mechanically or by hand. Since hand mixing generates little shear force, we recommend allowing the fresh mortar to slake for 5 minutes and then stirring it again. This is usually unnecessary where mechanical mixers are employed.

## Packaging and storage

### Packaging

25 kg paper bags  
Big Bags or bulk on request.

### Storage

During storage, protect the product from contact with moisture. Prolonged storage at temperatures above 30 °C, especially in combination with pressure, humidity or exposure to sunlight, may result in blocking. Carefully seal any open containers and store them under suitable conditions. We recommend storing the product in a warehouse that provides cool and dry conditions. Do not store the product for more than six months, starting from the date at which it was received, unless the Certificate of Analysis contains a different date, which would take precedence. If the product is stored longer than recommended, it may still be used but users are advised to verify the properties required for the intended use.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices or may be downloaded from the WACKER Web site [www.wacker.com/vinnapas](http://www.wacker.com/vinnapas).

## QR Code VINNAPAS® 4419 E (SCALE UP)



### For technical, quality or product safety questions, please contact:

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