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VINNAPAS®

CAPITAL

DELIVERY FORMS AND STORAGE OF DISPERSIBLE POLYMER POWDERS

412807





VINNAPAS® dispersible polymer powders are the most successful polymeric binders worldwide. To ensure that you get maximum use out of VINNAPAS®, we provide full logistics, storage and handling support.

Three Sites: One Standard

The world's first dispersible polymer powders to be manufactured in industrial quantities were made in Burghausen. Today, VINNAPAS® dispersible polymer powders are produced in Germany, the US and China. Expert quality management and over 55 years' production experience ensure uniform quality worldwide.

Perfect Logistics From A to Z

WACKER maintains extremely high environmental and safety standards along the entire logistics chain. Highly reliable, we deliver on time and adapt our delivery conditions to product requirements. Of course, we work with only the best freight forwarders.

More Responsibility For Packaging, Too

As a Responsible Care® member, we are committed to environmentally sound, sustainable business practices – this is reflected in our packaging solutions. To accommodate different national practices, we have entered into take-back agreements with suitable regional partners. In Germany, for example, our paper bags are recycled by Repasack, while our plastics packaging is recycled via the RIGK take-back system.

Talk to us!

If you have any questions or comments, please contact us. We will be happy to provide supplementary information on safe handling and other topics. If you have any special requests, we will gladly be of assistance – even at your site, if necessary.

VINNAPAS® is a registered trademark of Wacker Chemie AG.



VINNAPAS® – THE PERFECT SOLUTION FOR EVERY APPLICATION

The VINNAPAS® product portfolio has been systematically enhanced over five decades. Now you can choose from a wide selection of highly specialized grades for all kinds of applications. To make it easier for you to find your way around them, we have grouped them into five product classes.

VINNAPAS® N Class – Neutral effect on rheology

Our standard powders, featuring neutral rheology, offer wide formulation latitude; ideal for all kinds of applications.

If you are looking for products with specific properties, we recommend our VINNAPAS® Plus line. Here you will find grades featuring exceptional performance characteristics.

VINNAPAS® E Class – Enhanced properties

These products offer enhanced properties for a wide range of applications, including improved ease of processing, stronger bonding or higher water resistance.

VINNAPAS® H Class – Hydrophobic excellence

These products have remarkable hydrophobic properties, and so are ideally suited for all kinds of plasters and grout mortars, as well as for ETICS (external thermal insulation composite systems).

VINNAPAS® T Class – Highly thixotropic

These products are used in thixotropic tile adhesives and troweling compounds.

VINNAPAS® L Class – Optimized leveling

These products deliver smooth surfaces, as they have excellent leveling properties. This makes them ideal for self-leveling compounds.

VINNAPAS® F Class – Superior flow properties

These products provide outstanding flow properties without the need for additional synthetic plasticizing admixtures or casein. This makes them ideal for self-leveling compounds and troweling compounds requiring fast processing with a two-in-one solution.

Please be aware that not all products are available in all regions. Contact your customer team for more information.

LABELING: CLEAR AND SIMPLE

Label for a Bag



Every single VINNAPAS® packaging unit worldwide carries a uniform label. This ensures clarity and security.

The VINNAPAS® product label clearly and concisely states the contents (product name), lot number, fill weight and fill code.

Product Names – What the Characters Signify

Every product name is made up of four digits and one letter. The first two digits identify the base polymer. The last two indicate the flexibility. The letter shows the product class.

Example: VINNAPAS® 5044 N

50: Base polymer: VAC/E

44: Flexibility: in this case, very flexible

N: Product class: in this case, neutral

Like a Fingerprint: The Lot Number

Each label contains a lot number, which ensures that every delivery can be traced.

Faster Identification: Color Coding

Each product class has its own label color. This helps to avoid mix-ups.

Label Big Bag



DELIVERY FORMS AND PACKAGING: CONSISTENT ACROSS ALL SITES



Lab Samples

Generally, we deliver lab samples within 48 hours.

Transport Information

- Packaging:**
- Sealed 2-liter PE bottles
 - 25-kg special paper bags

Special Paper Bags

High-tech paper bags with integrated moisture barrier are the standard packaging for VINNAPAS® dispersible polymer powders.

Transport Information

Fill weight per bag: 25 kg
 Pallet: CP2
 Average pallet height:
 1.75 m, depending on bulk density
 Net pallet weight:
 825 kg, 900 kg, 975 kg
 (depending on bulk density)
 Stacking height: max. single stack.
 Delivery by truck:
 23 to 26 pallets, depending on bulk density
 Delivery by ship:
 20-foot container with 11 pallets
 40-foot container with 24 pallets
 The pallets are covered with sheeting for added stability and protection against water splashes.

PE-Paper Compound Bags

PE-paper compound bags are a specialty packaging developed by WACKER

- For shipments to high-humidity regions (tropical packaging)
- Under adverse transport conditions.

Transport Information

Identical to special paper bags.



Big Bags

WACKER has developed the VINNAPAS® Safety Open system to ensure Big Bags (flexible intermediate bulk containers) are opened safely.

Transport Information

Fill weight per Big Bag: 700 to 1,000 kg (depending on bulk density)

Pallets: CP2 (700 kg)

Pallets: CP3 (1,000 kg)

Full bag height when suspended:

Approx. 160 cm (700 kg)

Approx. 200 cm (1,000 kg)

Delivery by truck:

32 CP2 pallets or 22 CP3 pallets

Delivery by ship:

20-foot container with 10 pallets (CP3)

40-foot container with 20 pallets (CP3)

Bulk Goods*

Bulk goods are delivered by silo truck or silo containers as a complete load.

Transport Information

Silo truck load: 22 to 24 t

(depending on bulk density)

Silo container load: 26 t

If you are planning a new silo system, please contact us. Our engineers will help you design it – on site, if required.

We'll be happy to assist you in choosing a suitable packaging for your requirements.

* Currently only available for deliveries from Germany

STORAGE/ TRANSFER

VINNAPAS® binders undergo extensive process controls and lab tests before they are delivered. To ensure that they retain their high quality during storage, please take note of the following guidelines.

Recommended Max. Storage Period

Approx. 6 months, depending on storage conditions. Storage stability decreases with increasing moisture, temperature and pressure (e.g. stacking, silo filling level).

Storage Temperature

Medium storage temperature
20 to 25 °C; short-term 30 °C max.

Quality Assurance Information

- Store dispersible polymer powders in a cool and dry place.
- Do not stack pallets more than two high.
- If temperatures exceed 25 °C, stacking is not recommended.
- Avoid exposing silos to direct sunlight.
- Empty the storage silo completely several times a year (3 to 5 times, depending on ambient temperature), to prevent solid deposits from building up on the silo walls.





PRODUCTION AND PACKAGING: CONTINUALLY OPTIMIZED

VINNAPAS® dispersible polymer powders are produced at three sites: in Burghausen (Germany), in Nanjing (China) and in Calvert City (USA).

Production in Burghausen

Burghausen is the largest production site. The product is essentially packaged and palleted when it leaves the site. To provide around-the-clock service for the market, an external warehouse was commissioned in 2008. From there, the product is shipped directly by truck or overseas in containers. We have our own rail freight terminal for shipping box containers to the sea ports of northern Germany – reliably, quickly and with the smallest-possible carbon footprint. The logistics will be further enhanced in 2014 when the public freight terminal in Burghausen comes on stream.

Production in Nanjing

The Nanjing site serves the Chinese market and ensures fast delivery times to China. Here, dispersible polymer powders are usually shipped via an internal warehouse. Seasonal fluctuations are managed with the aid of logistics providers.

Production in Calvert City

Calvert City serves North, South, and Central America. Here, dispersible polymer powders are exclusively shipped via an external warehouse. The product is brought by trailer to the external warehouse where the pallets are stored, ready for direct shipment.

Our Packaging – Protecting Both Product and Environment

Our packaging already addresses key environmental aspects:

Paper Bags

The bags for VINNAPAS® dispersible polymer powders are made of high-strength paper. These special types of paper are ideal for recycling because their extra-long cellulose fibers significantly enhance the quality of the recycled paper. The integrated PE moisture barrier is designed in such a way that our paper bags are fully recyclable.

Big Bags

Our Big Bags are made of a single polypropylene-fabric material and can be fully recycled.

Pallets

For reasons of quality and optimal logistics, we exclusively use new CP pallets made to IPPC standard. The wood employed originates entirely from certified forests. Naturally, customers are free to reuse these pallets as needed or to recycle them fully.

Good is not good enough for us – which is why we continually optimize our packaging solutions and incorporate novel supplier trends to further streamline material use. This is how we can ideally fulfill high quality and environmental-compatibility demands. Our partnership with you is very important in this regard.

EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS



WACKER is one of the world's leading and most research-intensive chemical companies, with total sales of €4.63 billion. Products range from silicones, binders and polymer additives for diverse industrial sectors to bio-engineered pharmaceutical actives and hyperpure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer a high value-added potential to ensure that current and future generations enjoy a better quality of life based on energy efficiency and protection of the climate and environment. Spanning

the globe with five business divisions, we currently operate 24 production sites worldwide. WACKER is represented by subsidiaries and sales offices in 29 countries in the Americas, Asia, Australia and Europe. With a workforce of 16,300, WACKER sees itself as a reliable innovation partner that develops trailblazing solutions for, and in collaboration with, its customers. WACKER also helps them boost their own success. Our technical centers employ local specialists who assist customers worldwide in the development of products tailored to regional demands, supporting them during every

stage of their complex production processes, if required. WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and reliable service to enable projects and orders to be handled fast, reliably and highly efficiently. Visit us anywhere, anytime around the world at: www.wacker.com



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For detailed environmental, health, and safety information please refer to the specific product SDS.

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