

NEXIVA®

Biocide-Free Dispersible Polymer Powders for Paint Applications

With NEXIVA®, WACKER is introducing a new class of high-performing dispersible polymer powders suitable for the production of high-quality interior wall paints.

Novel Binder in Powder Form

NEXIVA® is our new product line of dispersible polymer powders that allows manufacturers to produce interior wall paints in powder form. The binder is based on vinyl acetate-ethylene (VAE) and is free of biocides, organic solvents, plasticizers and film-forming agents.

Properties of NEXIVA®		
Properties	NEXIVA® 115	NEXIVA® 314
Polymer composition	VAc-E	VAc-E-VE
Solids [wt%]	Min. 98%	Min. 98%
Flexibility	Semi-flexible	Flexible
MFFT [°C]	4	0
Water resistance	Moderate	Good

VAc = vinyl acetate, E = ethylene, VE = VERSA® vinyl ester

Meeting Industry Needs

The concept of NEXIVA® dry binders was developed to increase flexibility in the supply chain, while reducing operational costs without compromise in application, service life and performance of the formulated paints.

Simplified Warehouse Management

The absence of water and biocides and the low density of NEXIVA® powder allow for easier storage (even under challenging climatic conditions) and simpler and safer handling (lower weight, easier clean-up if spilled and no labeling).

Reduced Plastic Packaging and Transportation Costs

Typical powder paint formulations weigh 40% less compared with dispersion paints. Also, powder paints can be packaged in paper bags with thin PE inliners instead of thick plastic buckets. Combined, these effects can significantly reduce costs in transportation and plastic waste treatment.

No Need for Biocide Preservation

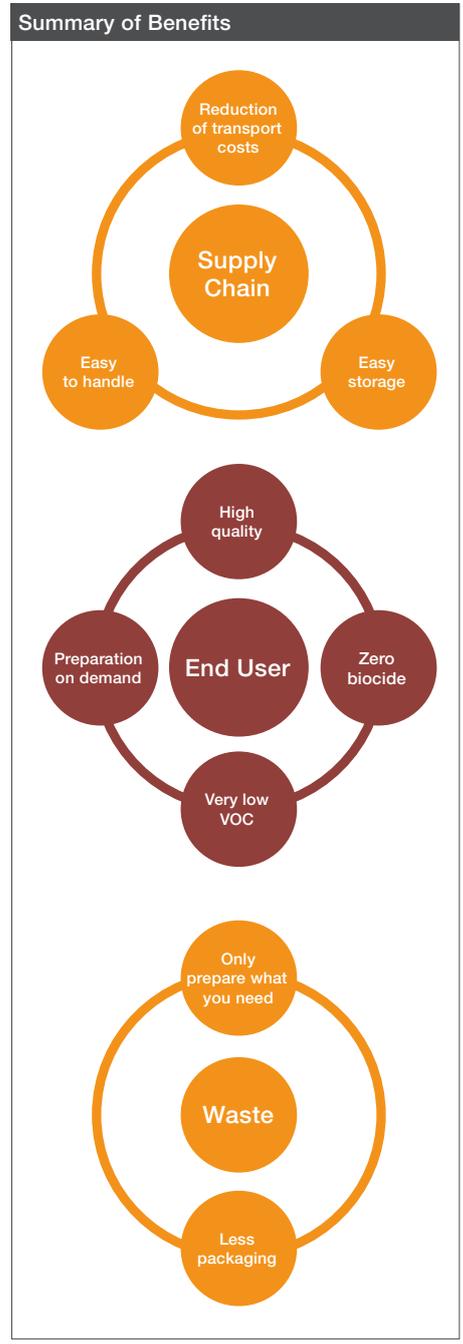
Water-based binders and formulations typically require biocides to prevent microbial growth. With ever stronger regulations on biocides, formulators' choices are becoming limited. NEXIVA® dry binders do not contain water and therefore require no biocides.

Reduction of Paint Waste

Paint can be prepared on site and on demand in the exact amount required. There is less surplus paint to be thrown away.



NEXIVA® based powder paints exhibit excellent hiding power.



Formulation of Very-Low-VOC, Low-Odor Paints

NEXIVA® based paints can be formulated to very low VOC levels (<1 g/l) for healthy living environments and in conformity with major ecolabels.

Performance of NEXIVA® Based Powder Paints

NEXIVA® grades enable simple and fast paint preparation with convincing properties:

- Good dispersion of fillers and pigments
- Low-VOC paints possible
- Excellent hiding power in white and colored paints
- High wet-scrub resistance
- Excellent workability

Formulation Possibilities

NEXIVA® products are delivered by WACKER in powder form. By simply mixing with water, the dispersible polymer powder can be converted into a liquid polymer dispersion at any step of the paint production process:

① The powder can be redispersed at the paint manufacturer's plant to produce a liquid paint. Benefits: savings in transportation and storage costs of the polymer binder and easier handling in warehouse and production; no changes in paint production process.

② The paint manufacturer can formulate a paint in powder form and deliver it to the point of sale. There, the liquid paint is produced on demand for the end user. Benefits: easier transport and storage for both the paint manufacturer and the retailer.

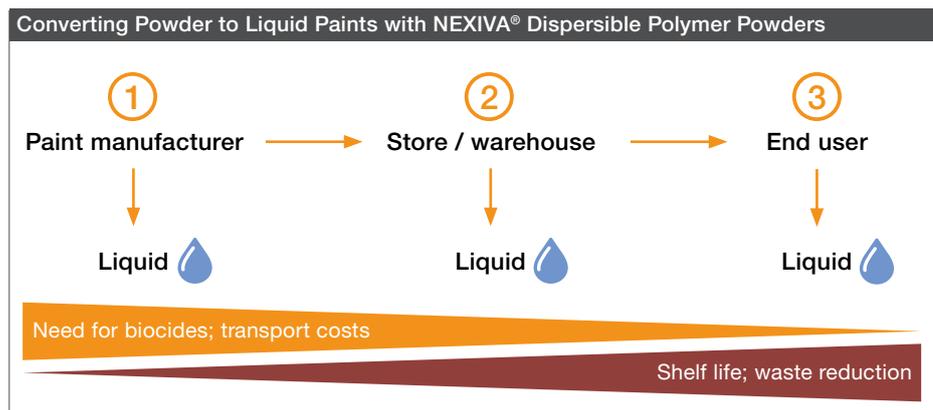
③ The paint can be sold in powder form to the end user. Just before application, water is added in the desired proportion to produce the required amount of paint. Benefits: easier transportation and storage along the whole value chain; no need for biocides; liquid paint can be produced in the required amount, reducing waste.



NEXIVA® based powder paints are simply mixed with water to produce a liquid paint. Paint preparation is easy and can take place either at the manufacturer's, at a sales location or on the job site.

At a Glance: Characteristics of NEXIVA® Dispersible Polymer Powders

- Polymer binder in powder form
- Reduce or eliminate need for biocides
- Lighter weight for easy transportation and handling
- Easier storage even under challenging conditions
- Paint preparation made easy, on demand and with precise dosage
- Paint can be applied immediately after mixing
- Coloration possible



Benefits arise from keeping the paint in powder form all along the value chain.

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