



# DECOSPHAERA® WHITE 50-250

## Chemical description

DECOSPHAERA® WHITE 50-250 are crosslinked pigmented polyurethane spherical microbeads, produced through a water-based industrial process.

## Main use

DECOSPHAERA® WHITE 50-250 enhance both performance and aesthetics in coatings and specialty applications. Their unique balance of toughness and elasticity makes them essential for high-performance formulations, offering:

- Matting Properties – Reduce gloss, even at 85°.
- Haptic Enhancement – Creates a rich, materic-like textured sensation.
- Functional Benefits – Improve mechanical strength, abrasion resistance, and chemical durability.

## Typical values

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Appearance: White powder

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pH (10% dispersion): 5 - 8

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Dry content: 99 ± 1 %

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Oil absorption: 50 - 75 %

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Bulk density: 500 - 800 g/l

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Granulometry d(50): 46 - 65 µm

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## Product properties

The dosage of DECOSPHAERA® WHITE 50-250 in varnish should be adjusted based on the desired effect. They offer broad compatibility, making them suitable for use in water-based, solvent-based and UV/EB coatings; however, it's important to conduct compatibility testing for specific formulations, especially when incorporating them into solvent-based paints. The low oil absorption of DECOSPHAERA® WHITE 50-250 allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology.

## Applications

DECOSPHAERA® WHITE 50-250 are widely used in various applications, including: high-quality paints & specialty coatings – enhancing performance and visual appeal, particularly in the decorative architectural paints where deep matte finishes with a textured feel is needed. Moreover, the combination of different DECOSPHAERA® colored grades allows the development of sophisticated decorative effects, enhancing both visual and tactile properties. These effects can be further intensified by the contrast with a pigmented base.

DECOSPHAERA® WHITE 50-250 can be incorporated at any stage of processing, as long as adequate stirring is applied to ensure uniform dispersion.

## Storage and handling

DECOSPHAERA® WHITE 50-250 is stable for 12 months from the production date when stored in dry, cool conditions within original sealed boxes. The recommended storage temperature is between 5°C and 30°C.

Please close the inner lining of opened boxes to avoid moisture absorption and contamination.

## Packaging

DECOSPHAERA® WHITE 50-250 is available in 20 kg boxes.

## Material safety

Please refer to the product's safety data sheet before use.

## Regulatory information

In case compliance with specific regulations is required please contact our sales representatives.

[polymerbeads.lamberti.com](http://polymerbeads.lamberti.com)