



DECOSPHAERA® TRANSPARENT 50-250

Chemical description

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

Main use

DECOSPHAERA® TRANSPARENT 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°, while maintaining black jetness.
- Haptic Enhancement - Creates a rich, materic-like textured sensation.
- Functional Benefits - Improve mechanical strength, abrasion resistance, and chemical durability.

Typical values

Aspect: White powder

pH (10%): 5 - 8

Oil absorption: 45 - 70 %

Dry content: 99 ± 1

Bulk density: 450 - 750 g/l

Particle size d(50): 40 - 70 µm

Product properties

The dosage of DECOSPHAERA® TRANSPARENT 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® TRANSPARENT 50-250 allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology.

Applications

DECOSPHAERA® TRANSPARENT 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.

DECOSPHAERA® TRANSPARENT 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® TRANSPARENT 50-250 are 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 35°C. Please close the inner lining of opened boxes to avoid moisture absorption and contamination.

Packaging

DECOSPHAERA® TRANSPARENT 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