

DECOSPHAERA® TRANSPARENT 3 EF HT

Chemical description

DECOSPHAERA® TRANSPARENT 3 EF HT are crosslinked polyurethane spherical microbeads, produced through a water-based industrial process.

<u>Main use</u>

DECOSPHAERA® TRANSPARENT 3 EF HTenhance both performance and aesthetics in coatings and specialty applications. Their unique balance of toughness and elasticity makes them essential for high-performance formulations, offering:

- <u>Matting Properties</u> Reduce gloss, even at 85°, while maintaining high black jetness.
- <u>Haptic Enhancement</u> Provide a high slip soft touch.
- <u>Functional Benefits</u> Improve mechanical strength, thermal resistance, abrasion resistance and chemical durability.

Typical values

Aspect: White powder
рН (10%): 5-8
Oil absorption: 70 – 120 %
Dry content: 99 ± 1
Bulk density: 300 – 500 g/l
Particle size d(50): 3 - 5 μm

Product properties

The dosage of DECOSPHAERA® TRANSPARENT 3 EF HT 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 3 EF HT allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology.

Furthermore, DECOSPHAERA® TRANSPARENT 3 EF HT can significantly enhance surface flexibility.

Applications

DECOSPHAERA® TRANSPARENT 3 EF HT is widely used in various applications, especially in high-quality paints & specialty coatings for enhancing performance and haptic, particularly in the automotive and synthetic/natural leather, ensuring a good thermal resistance to the top coat. DECOSPHAERA® TRANSPARENT 3 EF HT is particularly recommended when low thickness coatings are applied, like inks for flexible packaging, coil and foils coating.

Storage and handling

DECOSPHAERA® TRANSPARENT 3 EF HT 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® TRANSPARENT 3 EF HT is available in 15 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

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g., regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.