



# DECOSPHAERA® TRANSPARENT 8-20

## Chemical description

DECOSPHAERA® TRANSPARENT 8-20 are crosslinked polyurethane spherical microbeads, produced through a water-based industrial process.

## Main use

DECOSPHAERA® TRANSPARENT 8-20 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 high black jetness.
- Haptic Enhancement - Provide a high slip soft touch.
- Functional Benefits - Improve mechanical strength, abrasion resistance and chemical durability.

## Typical values

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Aspect: White powder

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pH (10%): 5 - 8

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Oil absorption: 70 - 120 %

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Dry content: 99 ± 1

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Bulk density: 300 - 500 g/l

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Particle size d(50): 5 - 8 mm

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## Product properties

The dosage of DECOSPHAERA® TRANSPARENT 8-20 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 8-20 allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology. Furthermore, DECOSPHAERA® TRANSPARENT 8-20 can significantly enhance surface flexibility.

## Applications

DECOSPHAERA® TRANSPARENT 8-20 is widely used in various applications, including:

- High-quality paints & specialty coatings - Enhancing performance and visual appeal, particularly in the wood and leather industries, where they achieve deep matte finishes with a natural haptic feel and ensure surface protection.
- Coil coatings (water-based or UV/EB) - Improving flexibility while providing gloss reduction and haptic properties.
- Industrial applications - Serving in anti-vibration and sound-damping solutions.

DECOSPHAERA® TRANSPARENT 8-20 can be incorporated at any stage of processing, as long as adequate stirring is applied to ensure uniform dispersion.

## Storage and handling

DECOSPHAERA® TRANSPARENT 8-20 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 8-20 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)

**DECOSPHAERA<sup>®</sup> TRANSPARENT 8-20**  
**ESACOTE<sup>®</sup> PU 77**

TOP COAT WOOD FLOORING EXTRA MATT

Introduction order	Raw material	Quantity %	Function & Supplier
1	<b>ESACOTE<sup>®</sup> PU 77</b>	55	Binder (Lamberti)
2	ESACOTE PU 980	20	Binder (Lamberti)
3	BUTIL CARBITOL	3	Coalescent(DOW)
4	WATER	3	
5	SURFYNOL 104E	0.5	Surfactant(Evonik)
6	BYK 346 (Diluted at 50% water)	0.4	Wetting agent(Byk)
7	WATER	7.4	
8	BYK 333	0.15	Leveler agent(Byk)
9	BYK 024	0.2	Defoamer (Byk)
10	<b>DECOSPHAERA<sup>®</sup> TRANSPARENT 8/20</b>	10	Matting agent(Lamberti)
11	VISCOLAM PS 170 AIR	0.35	Rheology modifier(Lamberti)
	<b>Total</b>	100	