



DECOSPHAERA® RED PERMANENT 15 F

Chemical description

DECOSPHAERA® RED PERMANENT 15 F are crosslinked pigmented polyurethane spherical microbeads, produced through a water-based industrial process.

Main use

DECOSPHAERA® RED PERMANENT 15 F 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 – Provide a natural feel with a subtle textured effect.
- Functional Benefits – Improve mechanical strength, abrasion resistance, and chemical durability.

Typical values

Appearance: Red powder

pH (10% dispersion): 5 - 8

Dry content: 99 ± 1 %

Oil absorption: 50 - 75 %

Bulk density: 500 - 800 g/l

Granulometry d(50): 15 - 22 µm

Product properties

The dosage of DECOSPHAERA® RED PERMANENT 15 F 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® RED PERMANENT 15 F allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology. Furthermore, DECOSPHAERA® RED PERMANENT 15 F can significantly enhance surface flexibility.

The dosage of DECOSPHAERA® RED PERMANENT 15 F in the varnish depends on the desired result for matt and haptic effect.

Applications

DECOSPHAERA® RED PERMANENT 15 F are widely used in various applications, including:

- High-quality paints & specialty coatings – Enhancing performance and visual appeal achieving deep matte finishes with a natural haptic feel.

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® RED PERMANENT 15 F can be incorporated at any stage of processing, as long as adequate stirring is applied to ensure uniform dispersion.

Storage and handling

DECOSPHAERA® RED PERMANENT 15 F 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® RED PERMANENT 15 F 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.

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