



Technical Data Sheet

DEUTERON UV RMP

Proprietary Wax Compound

Deuteron[®]
ADDITIVES TO YOUR SUCCESS

■ Product Characteristic

Appearance	white powder
Density	approx. 0.92 g/cm ³
Melting point	65 - 110 °C
Particle size	approx. 8 µm



■ Product Description

Deuteron UV RMP is a micronized wax compound designed as matting additive for UV curable inks and coatings. In UV curable systems (free radical polymerization) the addition of Deuteron UV RMP leads to a controlled incompatibility during the curing process.

The incompatibility between wax and resin is initiated by the crosslinking during the curing process and leads to a microscopic surface deformation of the resin. Films matted using Deuteron UV RMP show an outstanding mechanical stability (no particle-based matting), high chemical resistance and pleasant feel.

■ Applications

Deuteron UV RMP is suitable for a wide range of applications including:

- › Wood and joinery coatings
- › Floor coatings
- › Overprint varnishes

The use of Deuteron UV RMP especially improves performance in:

- › Matting
- › Burnishing / Polishing resistance
- › Smooth feel
- › Chemical resistance
- › Low impact on viscosity

■ Dosage

2.5 - 15 % (calculated on the complete formulation) – the needed addition level depends on the system reactivity, curing conditions and desired gloss level and should be tested individually.



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■ Processing

Deuteron UV RMP can be incorporated using a common high-speed stirrer. In low viscous systems it might be necessary to use a high shear dispersing unit to properly disperse the material.

Because of the non-polar character Deuteron UV RMP can potentially stabilize foam in the system. It is recommended to disperse the material at a high viscosity step (i.e. into the resin) and try to prevent the incorporation of air during stirring.

Please note that Deuteron UV RMP is based on a controlled surface deformation and thus the matting efficiency can be influenced by the presence of surface-active ingredients (i.e. dispersants, flow and levelling agents, defoamers and wetting additives) like silicones or fluorinated additives. Because of this potentially negative interaction it is recommended to run first tests in additive free systems.

■ Storage Conditions

24 months at room temperature and dry conditions. Storage temperature should not exceed 30 °C to prevent sintering.

■ Package Sizes

Paper bag (15 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron UV RMP is not classified as a dangerous product and therefore does not need to be labelled.

For detailed information please refer to the Safety Data Sheet and Regulatory Information Sheet. The documents are also available on our website:

<https://www.deuteron.com/en/download-center/>

■ Deuteron: First class products for the coating industry

Deuteron GmbH successfully develops and sells innovative additives since 1977. Our product range consists of matting agents, anti-static additives, texturing additives, thickeners and UV initiators. In the course of our company history we have become an important partner of the national and international paint, lacquer and coating industry with sales partners around the globe.

This leaflet intends to give technical advice without warranty and does not claim to be complete.



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