



Technical Data Sheet

DEUTERON UV RS20

Surface Protection and Slip Additive for UV curable Systems

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■ Product Characteristic

Appearance	white dispersion
Reactive thinner	DPGDA
Active content	approx. 25
Density	approx. 1.03 g/cm ³
Viscosity	approx. 2600 mPa*s
Particle size dv50	approx. 4 µm
Particle size dv90	approx. 9 µm

■ Product Description

Deuteron UV RS20 is a special wax dispersion in DPGDA (Dipropyleneglycoladiacrylate) as reactive thinner. Deuteron UV RS20 improves the surface smoothness and the resistance to abrasion and scrubbing of UV coatings and printing inks. It gives the surface pleasant, silky-soft haptic properties.

■ Applications

Deuteron UV RS20 is suitable for all 100 % UV curing coatings and printing inks in particular for solvent-free systems.

The use of Deuteron UV RS20 especially improves performance in:

- › Smooth / slip surface properties
- › Very low impact on viscosity
- › Water-repellent surfaces
- › Mechanical properties
- › No adverse effect on flexibility

■ Dosage

1 - 15 % (calculated on the complete formulation) depending on binder, application and required properties. The optimum dosage can vary significantly and is highly dependent on the used resins, monomers and initiators.





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■ Processing

The incorporation should be done without shear forces only with a stirrer at a late stage of production to avoid foaming. Grinding processes should be avoided. It can be added either pre-diluted or pure.

■ Storage Conditions

12 months at room temperature and dry conditions. Storage temperature should not exceed 35 °C. Stir well before use as phase separation can occur while storing.

■ Package Sizes

Steel drum (25 kg net)
Steel drum (200 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron UV RS20 is classified as a dangerous Product and therefore needs 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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