



Technical Data Sheet

DEUTERON MM 677

Organic Matting Agent dispersed in water

Deuteron[®]
ADDITIVES TO YOUR SUCCESS

Product Characteristic

Density approx.	1.07g/cm ³
Viscosity approx.	4000 mPas
Particle size dv50 approx.	5.5 µm
Particle size dv90 approx.	12.1 µm
Active content	22 %
Appearance	white dispersion



Product Description

Deuteron MM 677 is an additive free dispersion based on duromeric PMU (Polymethyl urea) matting plastics.

The use of Deuteron MM 677 leads to good matting effects with high flexibility, velvet feel and excellent mechanical properties. Deuteron MM 677 is easy to use as a liquid preparation, dust-free and can be used in production via auto-dosing systems. The dispersion is made without using dispersing additives, emulsifiers and defoamers and thus highly compatible without negative influence on the coating performance.

Applications

Deuteron MM 677 is suitable for a wide range of applications including:

- › Wood and joinery coatings
- › Flexographic inks
- › Overprint varnishes
- › Metal coatings (can and coil coatings)
- › Concrete coatings

The use of Deuteron MM 677 especially improves performance in:

- › Matting
- › Velvety surface (soft surface feel)
- › Recoatability
- › High mechanical and chemical resistance
- › High scratch resistance and resistance to polishing
- › Temperature resistant up to over 200 °C, short times up to over 300 °C
- › Improved blocking resistance
- › Biodegradable

Dosage

Typical addition range: 2 %–25 %

The required dosage level highly depends on the system (e.g. binder type, additives, solvent content) and application parameters. Thus, it is highly recommended to determine the needed addition level by a practical ladder study. Please note that the addition of Deuteron MM 677 also adds significant amounts of water to the system.



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■ Processing

Deuteron MM 677 is easy to disperse and can be incorporated using a common high-speed stirrer. It is recommended to add Deuteron MM 677 while stirring to avoid eventual agglomeration caused by concentration differences.

■ 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

Plastic drum (25 kg net)
Plastic drum (200 kg net)
Intermediate Bulk Container (IBC) (1000 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron MM677 is classified as a non-dangerous product and therefore needs not 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 agencies around the globe.

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



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