



Technical Data Sheet

DEUTERON PMH C

Organic duromeric Matting Agent

Deuteron[®]
ADDITIVES TO YOUR SUCCESS

Product Characteristic

Density approx.	1.47 g/cm ³
Oil absorption approx.	167 g Palatinol N/100 g (DIN ISO 787/5)
Particle size dv50 approx.	5.5 µm
Particle size dv90 approx.	12.1 µm
OH-content approx.	0.27 %
Appearance	fine white powder



Product Description

Deuteron PMH C is a micronized duromeric plastic powder based on PMU (Polymethyl urea). The unique synthesis of Deuteron PMH C leads to a well-balanced mix between compact and amorphous particle structures – this property makes it a good matting agent with very low influence on viscosity and porosity. Because of their highly compatible chemistry Deuteron PMH C can be used as matting agent in a wide variety of different applications and systems.

Compared to the Deuteron MK family our Deuteron PMH C shows less matting efficiency but significantly less influence on viscosity and improved flexibility.

Applications

Deuteron PMH C can be used in almost all coating applications ranging from water borne and solvent borne to 100 % systems. It can be used as stand-alone additive or in combination with other materials to further improve their properties.

The use of Deuteron PMH C especially improves the following properties:

- › Good matting effect
- › Low influence on viscosity
- › High mechanical and chemical resistance
- › High scratch resistance and resistance to polishing
- › Temperature resistant up to over 200 °C, short-time up to over 300 °C
- › Pleasant touch
- › Improved blocking resistance
- › Insoluble in solvents commonly used in paints
- › Biodegradable

Dosage

Typical addition range: 1 %–15 %

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.



Technical Data Sheet

DEUTERON PMH C

Organic duromeric Matting Agent

Deuteron[®]
ADDITIVES TO YOUR SUCCESS

■ Processing

The PMU chemistry in general is highly compatible in a wide range of systems. Due to that Deuteron PMH C can be incorporated easily by a high-speed stirrer without the need for specific wetting agents or dispersing aids. They are shear stable in high shear processes but should not be ground in a bead mill.

■ Storage Conditions

24 months at room temperature and dry conditions. Storage temperature should not exceed 35 °C.

■ Package Sizes

Paper bag (15 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron PMH C 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 agencies around the globe.

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



DEUTERON GmbH
In den Ellern 2-4
28832 Achim, Germany

Phone: +49 (0) 421 48 99 03 -0
Fax +49 (0) 421 48 99 03 -60

Mail contact@deuteron.com
URL www.deuteron.com

© 10.20 EN
081-122029