

DEUTERON MK, MK-F, MK-F6

Micronized mattingplastic

/ Chemical Description

Thermosetting plastic powder

/ Physical Data

Deuteron	MK	MK-F	MK-F6
Specific weight approx.	1.4	1.4	1.4
Particle size d50 approx.	6.3	4.6	3.5 μm
Particle size d90 approx.	13.8	10.6	6.5 μm
Oil absorption* approx.	325	278	251 g
Appearance	Fine white powder		



* (g/100g Palatinol N / DIN ISO 787/5)

/ Properties

Deuteron MK matting agents are micro-ground resp. micronized powders. The fineness enables Deuteron MK-products to be used in a wide field of applications for producing satin-flat and satin-gloss coatings. The small binder demand of all Deuteron MK-types only lead to a nonessential viscosity influence, which is important for UV-curing lacquers. Deuteron MK-products are resistant against solvents and chemicals which are customary in the paint industry. These products can also be used in exterior applications. Adjustments to specific requirements can easily be made due to the different available particle sizes.

Deuteron MK-types show a heat resistance of more than 200 °C, temporarily up to 300 °C. Weather resistance and light stability are most favorable. They are suitable for the use in UV and water-based coatings to decrease the blocking without impairing the recoatability.

Deuteron MK, MK-F and MK-F6 are insoluble in standard solvents used in the industry.

In some cases the surface properties can be increased by using a combination of Deuteron MK-types with a suitable wax, e.g. Deuteron WAX PP or Deuteron WAX TF.

/ Application

Deuteron MK-matting agents are suitable as exclusive matting agents for water-borne, solvent-borne and solvent-free systems, air-drying as well as stoving. They can also be used in printing inks, wood lacquers, UV-curing coatings, coil coatings, lacquers on foils, aqueous wood and furniture varnishes.

The finer types are suitable where particularly thin dry films are applied or where very smooth surfaces have to be realized. The combination with inorganic matting agents is possible and leads to improved mechanical resistances. Scratch resistance and resistance against burnishing will be increased.

/ Dosage

The quantity depends on the requested gloss and the binder used. Additions of 1.0 - 15.0 % (calculated on total formulation) are common. The exact dosage should be determined by own trials.

/ Processing

Because of their excellent dispersing properties Deuteron MK-products can be stirred into the liquid phase with a simple stirrer. This is applicable for water-based and solvent-based systems. It is also possible to grind them with the mill base to obtain an optimum of dispersion in paints containing pigments.

/ Storage conditions

Deuteron MK-types can be stored for at least 24 months at room temperature and dry conditions.

/ Package Sizes

Paper bag (10 kg net)

/ Safety Regulations

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

Due to the fine fractions of the matting agents,
measures for dust protection must be heeded
and the build up of electrostatic charge must be
avoided.

/ Matting Agents (Powder) from our portfolio

Deuteron PMH C
Deuteron PMH M, PMH F
Pergopak M3
Pergopak M4

Deuteron MM 659
Deuteron MM 669
Deuteron MM 680
Deuteron MM 682

Deuteron MM 684
Deuteron MM 823

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