

DEUTERON OG 863, 8632, 8634

Surface additive / finest grinding
of polymethyl urea resin (PMH)

/ Chemical Description

Urea polycondensation resin / Isopropanol

/ Physical Data

Appearance	white liquid
Specific Weight	approx. 0,95 g/cm ³
Solid content	approx. 32 %
Solvent	IPA
Flash Point	12 °C



Particle sizes (approx.)

	d50	d99
OG 863	3,5 µm	12,5 µm
OG 8632	2,3 µm	7,0 µm
OG 8634	<1,5 µm	<3,5 µm

/ Properties

Deuteron OG 863x is based on polymethyl urea resin as an effective substance. The resin shows excellent hardness and abrasion resistance. It is resistant to most customary solvents and shows a good resistance to temperatures of up to 200 °C. When used as an additive in solvent-based paint systems, Deuteron OG 863x improves properties regarding slip and static friction and provides increased mechanical resistance. Compared with wax based, Deuteron OG 863x does not spoil the recoatability. The small particle size allows for its use in coating-systems which are applied in low film thickness. Deuteron OG 863x can reduce the gloss when used as a surface additive. This can be desired for certain applications. The gloss reduction is dependant on the type of employed binder, the applied film thickness and the selected dosage.

/ Application

Deuteron OG 863x is designed for the use in aqueous and solvent-based lacquers and in coatings which are applied in low film thickness. Due to the good weather resistance and color fastness of the used polymer the product can also be used in coating systems for exterior applications. This additive is the alternative to wax dispersions with their well-known typical side-effects.

/ Dosage

The optimal dosage depends on the employed binder and the required surfaceproperties. The exact dosage should be determined by own trials. Initially an addition of 1,5 % or more is appropriate. The tendency to reduce the gloss has to be taken into consideration for each individual case.

/ Processing

Deuteron OG 863x should be incorporated homogeneously into the aqueous or solvent-based lacquer by stirrer or dissolver.

The compatability with the isopropanol present in the product has to be checked.

/ Storage conditions

Deuteron OG 863x can be stored in its original tightly closed containers for at least 24 months at room temperature.

/ Package Sizes

Sheet steel hobbock (20 kg net)

/ Safety Regulations

According to Regulation (EC) No. 1272/2008 Deuteron OG 863x is classified as a dangerous product and therefore needs to be labeled. For more information please consult the safety data sheet.

/ Deuteron: First-class products for the coatings industry

Deuteron GmbH has 30 years of experience in the production and sales of additives including: matting agents, conductivity agents and UV initiators. In the course of our company's 30-year history, we have become an important partner for the paint, lacquer and coatings industry – we operate nationally and internationally and are represented all over the globe. We serve you with

the dependability and close business relationship that only an owner-operated, medium-sized company can offer – and we also have the expertise of a global provider. Get in touch with us! We are happy to be of assistance and to help find individual solutions for your needs.



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You can find detailed information on all our products at www.deuteron.com. Matting and texturing agents, surface additives, UV initiators and much, much more: We supply first-class

products and look back on more than 30 years of experience as an important partner for the coatings industry.

/ Surface Additives from our portfolio

Deuteron OG 861, 8612, 8614	Deuteron OG 8803, 8805, 8807	Deuteron WS
Deuteron OG 863, 8632, 8634	Deuteron OG 8810, 8812, 8814	
Deuteron OG 8650, 8652, 8654	Deuteron OG 8820, 8822, 8824	
Deuteron OG 8670, 8672, 8674	Deuteron SF 707	

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