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DEUTERON UV RM10

Silica free matting paste for radically
curing UV systems

/ Chemical description

Dispersion of special waxes with inorganic matting agents

/ Physical data

Appearance	white dispersion
Viscosity	approx. 3.200mPa·s Brookfield LVDV-III Ultra Spindle SC4-25, 30 rpm
Density (20°C)	approx. 1,05 g/cm ³
Particle size (µm)	d50: < 3 d90: < 12
Active agent content	approx. 26,5 %



/ Properties

Deuteron UV RM10 leads to very resistant surfaces having very pleasant, silky-soft haptical properties. Delivery as a paste allows easy, powder-free handling. The matting efficiency of the additives is largely independent from the coating's film thickness.

In order to identify and later to rule out interactions with other additives, preliminary laboratory tests employing an additive-free basis system should be conducted. As thick-film (100 %) UV curing systems are very difficult to matt, a certain sensitivity to unsuitable additives cannot be ruled out. Silicone-based additives have for example lead to a reduced effectiveness.

In thick-film applications, conventional matting agents such as silica-based products and organic matting agents from our Deuteron MK-series only give moderate results. Combinations with Deuteron UV RM10 however considerably improve the matting effect.

/ Application

Radically curing 100 % UV-systems (solvent-free).

/ Dosage

The optimum dosage is highly dependent on the binders, photoinitiators and reactive thinners used in the formulation. In some cases other additives influence the required dosage as well, which must therefore be determined by own trials using the total formulation. For initial experiments a dosage of approx. 10 % is recommended.

/ Processing

Deuteron UV RM10 should be incorporated into the coating system at the end using a stirrer. It can be added either pre-thinned or pure. In systems containing pigments it should be examined whether an addition before or after grinding leads to better results. In systems containing pigments it should be examined whether an addition before or after grinding furnishes better results.

/ Storage conditions

Deuteron UV RM10 can be stored in tightly sealed containers for at least 6 months. The product must be stored under frost-free conditions. A storage temperature of 35 °C should not be exceeded otherwise the reactive thinner could be damaged.

It is recommended to stir the product before removing material, because under unfavourable conditions phase separation can occur.

/ Container sizes

Sheet steel hobbock (25 kg net)
Steel drum (200 kg net)

/ Safety Regulations

According to Regulation (EC) No. 1272/2008 DEUTERON UV RM10 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.



/ Visit us on the Internet

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.

/ UV-Matting Agents / Additives from our portfolio

Deuteron UV RM10
Deuteron UV RM15
Deuteron UV RM17
Deuteron UV RM19

Deuteron UV RS20

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