

UCECOAT® 7733

UV-CURABLE POLYURETHANE DISPERSION

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INTRODUCTION

Ucecoat 7733 is a UV-curable polyurethane dispersion characterized by its outstanding stain resistances both in clear and white pigmented coatings, while still giving flexibility.

PERFORMANCE HIGHLIGHTS

Ucecoat 7733 is characterized by:

- ✓ Translucent to white appearance.
- ✓ Low viscosity.
- ✓ Excellent colloidal stability.
- ✓ Good compatibility and easy to formulate.
- ✓ Tack-free behavior after physical drying before UV curing.
- ✓ Outstanding hardness and scratch resistance.
- ✓ Excellent stain and solvent resistance.

The final properties of UV cured formulations also depend on the selection of the other components such as additives and photoinitiators.

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing Ucecoat 7733 may be applied by direct or reverse roll, spray and curtain coating methods.

Ucecoat 7733 is recommended for use in:

- ✓ waterbased UV clear and white pigmented coatings on wood
- ✓ waterbased UV protective clear coatings for PVC flooring

TYPICAL PROPERTIES

Appearance	translucent to whiteliquid
Density at 25°C, g/ml	approx. 1.0
Particle size, nm :	< 125
MFFT :	6°C
Solid content, % by weight	approx 38,0
Brookfield viscosity at 25°C, mPa.s ca.	< 200
pH	7.0-8.5
Tg (°C)	113
Elongation %	2.0
Hardness Persoz	240-250

PHYSICAL PROPERTIES

Density, g/cm ³	approx. 1.0
PH	7-8
Particle size, nm	< 200
Polymer solids, % by weight	approx. 35

STORAGE AND HANDLING

Care should be taken not to expose radiation curable products to temperatures exceeding 40°C for prolonged periods or to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat. Due to the presence of water, Ucecoat 7733 needs to be stored above freezing temperatures.

Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. This material should not be stored for more than 1 year.

PRECAUTIONS

The following is a summary of the precautions to be taken when handling this product. Please refer to the Safety Data Sheet for further details. The toxicological properties of this material have not been fully determined.

Appropriate precautions should be taken to avoid eye and skin contact and to avoid inhalation of the aerosols or vapours.

Consult the relevant Safety Data Sheet for appropriate handling procedures and protective equipment prior to using this or any other material referred to in this bulletin.

See Safety Data Sheet for emergency and first aid procedures.

STATUTORY LABELLING

Please refer to Safety Data Sheet.

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